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Coefficients of Conservatism for the Vascular Flora of the Dakotas and Adjacent Grasslands

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By The Northern Great Plains Floristic Quality Assessment Panel

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## Coefficients of Conservatism for the Vascular Flora of the Dakotas and Adjacent Grasslands

By The Northern Great Plains Floristic Quality Assessment Panel

#### Coordinator:

David M. Mushet U.S. Geological Survey Northern Prairie Wildlife Research Center Jamestown, ND 58401

Panel Members:

William T. Barker North Dakota State University Department of Animal and Range Science Fargo, ND 58105

Edward S. Dekeyser North Dakota State University Department of Animal and Range Science Fargo, ND 58105

Harold A. Kantrud U.S. Geological Survey (Retired) Northern Prairie Wildlife Research Center Jamestown, ND 58401

Donald R. Kirby North Dakota State University Department of Animal and Range Science Fargo, ND 58105

Gary E. Larson South Dakota State University Department of Biology and Microbiology Brookings, SD 57007 Darla M. Lenz North Dakota Parks and Recreation Department 1835 Bismarck Expressway Bismarck, ND 58504

Judith A. Maxwell U.S. Department of Agriculture Forest Service Dakota Prairie Grasslands Bismarck, ND 58501

Norman C. Melvin III U.S. Department of Agriculture Natural Resources Conservation Service Wetlands Science Institute Laurel, MD 20708

David J. Ode South Dakota Department of Game, Fish, and Parks 523 East Capitol Avenue Pierre, SD 57501

Charles A. Pelizza U.S. Fish and Wildlife Service RR #1, Box 77 Lake Andes, SD 57356

#### Abstract

Floristic quality assessment can be used to identify natural areas, to facilitate comparisons among different sites, to provide long-term monitoring of natural area quality, and to evaluate habitat management and restoration efforts. To facilitate the use of floristic quality assessment in North Dakota, South Dakota (excluding the Black Hills), and adjacent grasslands, we developed a species list and assigned coefficients of

conservatism (C values; range = 0 to 10) to each plant species in the region's flora. The C values we assigned represented our collective knowledge of the patterns of occurrence of each plant species in the Dakotas and our confidence that a particular taxon is natural-area dependent. Because state boundaries usually do not follow ecological boundaries, the C values we assigned should be equally valid in nearby areas with the same vegetation types. Of the 1,584 taxa we recognized in this effort, 275 (17%) were determined to be nonnative

to the region. We assigned C values of 4 or higher to 77% of our native taxa, and the entire native flora had a mean C value  $(\bar{C})$  of 6.1. A floristic quality index (FQI) can be calculated to rank sites in order of their floristic quality. By applying the coefficients of conservatism supplied here and calculating  $\bar{C}$  and FQI, an effective means of evaluating the quality of plant communities can be obtained. Additionally, by repeating plant surveys and calculations of  $\bar{C}$  and FQI over time, temporal changes in floristic quality can be identified.

**Key Words:** floristic quality assessment, native plants, natural area assessment, natural area monitoring, North Dakota, plant community evaluation, restoration evaluation, plant species checklist, South Dakota.

#### Introduction

The natural landscape of North and South Dakota has been modified extensively since pre-European settlement. Large tracts of land have been tilled and put into agricultural production; wetlands have been drained, filled, and farmed; rangelands have been grazed by domestic livestock at timings and intensities that do not match those of native herbivores; and natural fires have been suppressed. Consequently, remaining natural areas display varying degrees of quality because of habitat alterations, and many of the region's native plant species have been reduced or eliminated from vast areas where they formerly occurred. As habitats have been altered, plant species adapted to these habitats have been replaced by other (often nonnative) species better suited to the new ecological conditions. As pressures to develop remaining natural areas continue, so does interest in preserving, restoring, and managing them. Effective methods are needed to identify areas of high floristic quality for preservation and to evaluate the effectiveness of current restoration and management efforts.

Swink and Wilhelm (1979, 1994) developed and later refined a system (floristic quality assessment) for assessing the quality of natural areas in the Chicago region of Illinois. Their system was based on the concept that plant species display varying degrees of tolerance to disturbance, as well as varying degrees of fidelity to specific habitat integrity. They termed this tolerance and fidelity "species conservatism" and assigned each native plant species in the Chicago region a coefficient of 0 to 10 based on its conservatism relative to other native species in the region's flora. Given the assumption that the floristic quality of an area is directly related to its richness in conservative species

(Wilhelm and Ladd, 1988), the assigned coefficients of conservatism (C values), together with a list of native plant species present in an area, can be used to index the floristic quality of that area (Swink and Wilhelm, 1994). Subsequently, floristic quality assessment has been expanded to include Michigan, Missouri, the remainder of Illinois, and northern Ohio (Ladd, 1993; Andreas and Lichvar, 1995; Herman and others, 1997; Taft and others, 1997), and interest to expand the effort to other regions is growing. Here we provide C values for plant species of North Dakota and South Dakota, excluding the Black Hills, (hereafter referred to as the Dakotas) to facilitate the use of floristic quality assessment in this region and adjacent grasslands.

#### Methods

#### Assignment of coefficients

At an initial meeting of scientists and land managers in November 1999, we determined that the development of a species list with standardized C values for the Dakotas' flora would improve efforts to assess the quality of remnant natural areas and aid evaluations of restoration and management efforts. The Northern Great Plains Floristic Quality Assessment Panel was formed to develop this checklist by using the "Atlas of the Flora of the Great Plains" and the "Flora of the Great Plains" (Great Plains Flora Association, 1977, 1991) as primary reference sources. In January 2000, the panel met for a 3-day workshop at the North Dakota State University Herbarium, in Fargo, North Dakota, where we assigned a C value to each taxon on the checklist (see page 7).

We attempted to include all species naturally occurring in plant communities of the Dakotas on our checklist. However, the listing of taxa is not intended to serve as an exhaustive flora of the region; we developed this checklist primarily to facilitate the use of floristic quality assessment in our area. For ease of use, we followed the botanical nomenclature provided in the region's most widely used reference, "Flora of the Great Plains" (Great Plains Flora Association, 1991). We acknowledge that some of the taxonomy is outdated, but given the current state of flux in botanical nomenclature, we decided to standardize our checklist with this widely available printed source which includes keys and detailed descriptions of each taxon. In addition, we are developing an Internet-based version of our checklist to be served from the U.S. Geological Survey's Northern Prairie Wildlife Research Center World Wide Web site (www.npwrc.usgs.gov/resource/2001/fqa/

fga.htm) where we intend to provide updated synonyms and species codes standardized with the U.S. Department of Agriculture's PLANTS database (USDA, NRCS, 1999).

We assigned C values (0 to 10) to each taxon of the region's native flora. In assigning coefficients, we followed the guidelines set forth by Taft and others (1997), which are a slight modification of earlier efforts by Swink and Wilhelm (1979, 1994). The C values we assigned represent our collective knowledge of the patterns of occurrence of each plant species in the Dakotas and our confidence that a particular taxon is natural-area dependent. We supplemented our combined field experience by examining range maps and reviewing habitat comments in several references for some taxa (Stevens, 1963; Van Bruggen, 1976; Great Plains Flora Association, 1977, 1991; Larson, 1993). We assigned a coefficient of 0 to weedy species that can flourish in the most highly disturbed habitats (freshly tilled fields, gardens, new road cuts, etc.). Although native to our region, these weedy taxa provided us with 0 confidence that a specimen brought into the herbarium was collected from a remnant natural area. We assigned coefficients ranging from 1 to 4 to taxa that occur in natural areas but also in highly degraded habitats. Thus, a taxon receiving a 3 provided only about 30% confidence that this plant came from a remnant natural area. Taxa to which we assigned coefficients ranging from 5 to 9 are usually found in natural areas but have decreasing degrees of tolerance to disturbance. A taxon with a coefficient of 5 likely came from a natural area, but it could have been a very disturbed natural area, and a taxon receiving a 9 likely came from a relatively undisturbed or otherwise high quality natural area. We reserved the coefficient 10 for those taxa virtually restricted to natural, undisturbed habitats in the Dakotas (i.e., we could be nearly 100% confident that a sample brought into the herbarium was collected from a high quality natural remnant). In the table, we provide examples of species that characterize each C value.

As expected, the differences in plants receiving consecutive coefficients (e.g., 2 and 3) are sometimes slight and hardly discernable. However, concern over whether a plant is assigned a 2 and not a 3 or a 1, for example, is mitigated by averaging values in the actual application of this system (see below). We assigned an asterisk to all nonnative taxa as they are typically excluded from the Floristic Quality Assessment calculations described on page 4. Taxa identified as native on our checklist, but that also occur in our region as escapees from cultivation, should be ranked as nonnative when found in these situations (e.g.,

Juniperus scopulorum, Juniperus virginiana, and Pinus ponderosa).

#### Mean C values

By applying the C values provided in the Checklist (page 7) to a plant species list assembled for an area of interest, a mean C value (C) can be calculated by summing the C values for each native species present in the survey and dividing the summation by the total number of species present (N):

$$\bar{C} = \frac{\Sigma C}{N}$$

Thus, C represents the average conservatism of the plant community. By repeating surveys and calculating  $\bar{C}$  over periods of time, temporal changes in floristic quality can be evaluated. If habitat quality of an area is degrading, the first plants lost from the plant community will be conservative species (i.e., those with the highest C values). These conservative species will be replaced by less conservative species (i.e., those with lower C values), nonnative weeds, or no plants at all and  $\bar{C}$  will decline. Alternatively, if habitat quality is improving, the number of conservative species will increase and be reflected by an increase in C.

Nonnative species are not used in calculations to estimate the floristic quality of the native plant communities. Because these species did not develop in our region, it is difficult to assess the relationship of their occurrence to habitat integrity. Additionally, some nonnative species such as Bromus inermus and Poa pratensis are virtually ubiquitous in the region. It is

Table. Plant species characteristic of coefficients of conservatism (C values) ranging from 0 to 10.

С	
value	Example species
0	Amaranthus retroflexus, Conyza canadensis, Panicum capillare
1	Beckmannia syzigachne, Draba reptans, Solidago canadensis
2	Aster ericoides, Potentilla anserine, Verbena stricta
3	Bidens cernua, Ratibida columnifera, Rosa arkansana
4	Agropyron smithii, Carex eleocharis, Ribes missouriense
5	Andropogon gerardii, Cornus stolonifera, Helianthus maximiliana
6	Eriogonum annuum, Iris missouriensis, Sorgastrum nutans
7	Astragalus crassicarpos, Erysimum inconspicuum, Koeleria pyramidata
8	Heuchera richardsonii, Liatris aspera, Stipa spartea

Cypripedium spp., Trillium spp., Vallisneria americana 10

better to measure the effect that these species have on the native plant communities by considering them as a disturbance (i.e., measuring their effect indirectly through changes in  $\bar{C}$  of the native plant community). If desired, a calculation of  $\bar{C}$  can be conducted that includes the nonnative species. In these cases, nonnative species should be assigned a C value of 0, and a separate calculation using only the native species should also be conducted and reported.

#### Floristic quality index

If one is ranking sites in order of their floristic quality, a method is needed to discriminate among areas with similar  $\bar{C}$ 's but that differ significantly in the number of native species each supports. This ranking can be accomplished by calculating a floristic quality index (FQI). FQI is obtained by multiplying  $\bar{C}$  by the square root of the number of native species present (N):

$$FOI = \overline{CVN}$$

Thus, FQI is simply a weighted species-richness estimate that uses a square root transformation of N to limit the influence of area alone on species richness (Swink and Wilhelm, 1979, 1994). Two sites may have similar  $\bar{C}$ 's but different FQI's or similar FQI's but different  $\bar{C}$ 's if the number of native species each supports differs greatly. Calculating values for both  $\bar{C}$  and FQI facilitates better comparisons among sites.

#### Application

Swink and Wilhelm (1994) identified four commonly used applications for the floristic quality assessment system: (1) identification of natural areas, (2) facilitation of comparisons among different sites, (3) long-term monitoring of remnant natural area quality, and (4) evaluating habitat restorations. All four applications involve compiling a plant inventory for a site and then calculating C and FQI using C values assigned a priori to each taxon (see checklist, page 7). For monitoring efforts, these inventories can be duplicated yearly or at other intervals deemed appropriate to capture temporal changes in floristic quality. The sampling unit can be as small as a 0.25-m<sup>2</sup> quadrat along a transect or as large as an entire natural area. The size of the sampling unit depends most often upon project objectives. In the case of an isolated wetland, the unit may be the entire wetland where a botanist would record all species encountered in a complete walkthrough of the basin. However, quadrats randomly placed within each zone may be more appropriate if an assessment of the

wetland's plant communities by vegetative zone is the goal. Because sample area and sampling effort can influence floristic quality assessments, it is important to include details of the survey methodology when reporting  $\bar{C}$  and FQI. The details will facilitate meaningful and consistent subsequent comparisons of floristic quality among areas.

Although  $\bar{C}$  and FQI each provide useful information for assessing ecosystem integrity, other measurements can provide additional information and should be included in most assessments of floristic quality. Total species richness, native species richness, percent nonnative taxa, and physiognomic composition can also be calculated without additional field work, and each can provide information useful in discriminating between sites or in corroborating trends observed in  $\bar{C}$  or FQI (e.g., a decrease in  $\bar{C}$  may be accompanied by an increase in the percent of nonnative taxa).

We limited our checklist to the vascular flora of the Dakotas and assigned the C values based on the occurrence of each species within this political boundary. State boundaries usually do not follow ecological boundaries; thus, the C values we provide should be equally valid in nearby areas with the same vegetation types. The glaciated plains of western Minnesota and northwestern Iowa are prime examples of areas where our C values should be applicable. However, the more remote a site is from our core area of consideration, the more likely it will be that our C values will not reflect local conditions and may render misleading results.

#### Results and discussion

Of the total 1,584 taxa we considered in this effort, 275 (17%) were determined to be nonnative to the region. Of the region's 1,309 native taxa, we assigned a C value of 10 to 20% (figure 1), indicating that these plants are extremely intolerant of disturbance; consequently, these taxa occur only in the highest quality, remnant natural areas of the Dakotas. We assigned C values of 3 or less to 23% of our native taxa, and the entire native flora of the Dakotas had a  $\bar{\rm C}$  of 6.1. These results are similar to those found in the Chicago region, other parts of Illinois, and Michigan where 11%, 17%, and 15% (respectively) of the native plant species were assigned C values of 3 or less and the native floras had  $\bar{\rm C}$ 's of 7.3, 6.4, and 6.5 (Swink and Wilhelm, 1994; Herman and others, 1997; Taft and others, 1997).

Grouping taxa by physiognomic class reveals that most native species in the Dakotas are perennial forbs, followed by annual forbs, perennial sedges, perennial grasses, and shrubs (figure 2). Conversely, the region's

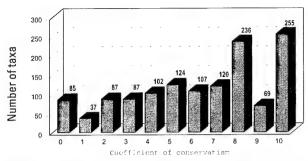


Figure 1. Distribution of the 1,309 native plant taxa occurring in North and South Dakota (excluding the Black Hills) by coefficient of conservatism designation.

nonnative taxa are dominated by annual forbs. Also, although only 16% of the native grasses are annuals, over half (55%) of the nonnative grass taxa are annuals. Of the 129 perennial grasses in the Dakota region, only 18 (14%) are nonnative; however, of the 44 annual grasses, half are nonnative. Much of the current landscape favors annual plants, whereas annual species were less prevalent in the region's presettlement plant communities. The shift from habitats favorable to perennials to those providing competitive advantages to annuals is clearly reflected in the physiognomic composition of the nonnative plant taxa that have successfully invaded our region.

By applying the coefficients of conservatism supplied here and calculating  $\bar{C}$  and FQI, an effective means of evaluating the quality of plant communities in our region is obtained. Changes in quality, either positive or negative, can be identified by repeating surveys and calculations over time. Through the use of floristic quality assessment, for example, a preserve manager reintroducing fire to a landscape in a manner

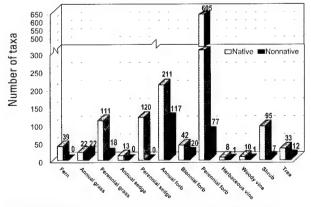


Figure 2. Distribution of native and nonnative plant taxa occurring in North and South Dakota (excluding the Black Hills) by physiognomic class.

approximating pre-European settlement conditions can determine, through changes in  $\bar{C}$  and FQI, if the change in management is allowing conservative plant species to repopulate the area. Similarly, a regulator attempting to estimate the consequences of draining a wetland can obtain a clearer idea of the likelihood of re-creating a wetland with a comparable plant community elsewhere, and a real estate specialist will have reliable information for ranking tracts of land when acquisition funds are limited.

Floristic quality assessment may help to better focus our efforts in areas of greatest potential benefit as competition for limited natural and financial resources continues. For example, drainage of a wetland with a long history of cropping in the basin during periods of below average precipitation may be easy to mitigate in terms of the native plant communities it supports. The species inhabiting this wetland will be limited to those that can tolerate the extreme disturbances associated with periodic cropping and will quickly repopulate a created or restored basin with minimal effort. However, a similarly sized wetland with soils that have never been tilled may support a native plant community rich in conservative species and be beyond our current abilities to create or restore; loss of this wetland should be considered an immitigable event. Floristic quality assessment allows us to identify high quality natural areas and to measure the quality of native plant communities we have attempted to restore and/or manage, thus providing an objective assessment of our current restoration and management efforts.

#### Acknowledgments

We would like to thank individuals and agency representatives who attended our November 1999 meeting in Jamestown, North Dakota, and provided their ideas, inspiration, and support. We thank the USGS Northern Prairie Wildlife Research Center for hosting this initial meeting and North Dakota State University for providing use of their facilities for our follow-up workshop in Fargo, North Dakota. This effort would not have been possible without the financial support of the U.S. Department of Agriculture Natural Resources Conservation Service, U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, and the U.S. Geological Survey. We thank Mark A. Anderson, Robert R. Cox, Jr., Ann L. Dahl, Bruce A. Hanson, and two anonymous individuals for reviewing this manuscript, and Dorothy E. Mushet for providing the cover illustration. Additionally, we thank Dr. Gerould S. Wilhelm for providing his unique insight

and guidance throughout this process, especially during our initial meeting in Jamestown and the resulting workshop in Fargo.

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## Vegetation checklist for North and South Dakota (excluding the Black Hills)

Here we provide a listing of the vascular plant taxa of North and South Dakota (excluding the Black Hills) with our recommended coefficients of conservatism (C). The listing of taxa in our checklist is not intended to serve as an exhaustive flora of the region; we developed this listing for the primary purpose of facilitating use of floristic quality assessment in the Dakotas and adjacent grasslands. For ease of use, we followed the botanical nomenclature provided in the most widely used flora checklist for the Dakotas, "Flora of the Great Plains" (Great Plains Flora Association, 1991). The listing is sorted alphabetically by scientific name. Native taxa are italicized while nonnative taxa are capitalized and also identified by an asterisk in the C column.

Each taxon has been designated a physiognomic grouping (i.e., fern, grass, sedge, forb, vine, shrub, tree). The grasses, sedges, and forbs are further identified as annuals (A), biennials (B), or perennials (P), and the vines are identified as herbaceous (H) or woody (W). Although these designations sometimes imperfectly depict the habit of a plant taxon and are subject to interpretation, they can be useful in identifying structural differences or changes in a plant community.

To further aid the application of floristic quality assessment in the Dakotas, we provide a six-letter acronym for each taxon. Use of these acronyms increases the speed at which field notes can be recorded and allows the direct transfer of field data into currently available floristic quality assessment computer programs. The acronyms are formed from the first three letters of the genus followed by the first three letters of the species or by the first two letters of the species and the first letter of the subspecies. In cases where duplicate acronyms result, we provide a nonintuitive acronym. To avoid excessive duplication in the *Carex* genus, we used CX followed by the first four letters of the species.

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
ABRFRA	7	Abronia fragrans	Sweet sand verbena	P-FORB	Nyctaginaceae
ABUTHE	*	ABUTILONTHEOPHRASTI	Velvetleaf	A-FORB	Malvaceae
<b>ACARHO</b>	0	Acalypha rhomboidea	Rhombic copperleaf	A-FORB	Euphorbiaceae
ACAVIR	0	Acalypha virginica	Virginia mercury	A-FORB	Euphorbiaceae
ACENEG	1	Acernegundo	Box elder	TREE	Aceraceae
ACESAI	4	Acersaccharinum	Silvermaple	TREE	Aceraceae
ACESAU	10	Acersaccharum	Sugarmaple	TREE	Aceraceae
ACHMIL	3	Achillea millefolium subsp. lanulosa	Common yarrow	P-FORB	Asteraceae
ACHSIB	10	Achillea sibirica	Siberian yarrow	P-FORB	Asteraceae
ACOCAL	*	ACORUS CALAMUS	Sweetflag	P-FORB	Araceae
ACTRUB	8	Actaea rubra	Baneberry	P-FORB	Ranunculaceae
ADICAP	8	Adiantum capillus-veneris	Venus'-hairfern	FERN	Polypodiaceae
AEGCYL	*	AEGILOPS CYLINDRICA	Jointed goatgrass	A-GRASS	Poaceae
AGAASP	9	Agalinis aspera	Tall false foxglove	A-FORB	Scrophulariaceae
			Slenderleaf false foxglove	A-FORB	Scrophulariaceae
AGATEN	8	Agalinis tenuifolia	Lavenderhyssop	P-FORB	Lamiaceae
AGAFOE	7	Agastache foeniculum		P-FORB	Lamiaceae
AGANEP	8	Agastache nepetoides	Catnip giant hyssop		
AGASCR	9	Agastache scrophulariaefolia	Purple giant hyssop	P-FORB	Lamiaceae
AGOGLA	8	Agoseris glauca	False dandelion	P-FORB	Asteraceae
AGRGRY	5	Agrimonia gryposepala	Hooked agrimony	P-FORB	Rosaceae
AGRSTR	5	Agrimonia striata	Striate agrimony	P-FORB	Rosaceae
AGRCAM	6	Agropyron caninum subsp. majus var. majus	Slender wheatgrass	P-GRASS	Poaceae
AGRCAU	6	Agropyron caninum	Slenderwheatgrass	P-GRASS	Poaceae
		subsp. <i>majus</i> var. <i>unilaterale</i>			
AGRCRI	*	AGROPYRON CRISTATUM	Crested wheatgrass	P-GRASS	Poaceae
AGRDAS	7	Agropyron dasystachyum	Thickspike wheatgrass	P-GRASS	Poaceae
AGRELO	*	AGROPYRON ELONGATUM	Tallwheatgrass	P-GRASS	Poaceae
AGRINT	*	AGROPYRON INTERMEDIUM	Intermediate wheatgrass	P-GRASS	Poaceae
AGRREP	*	AGROPYRON REPENS	Quackgrass	P-GRASS	Poaceae
AGRSMI	4	Agropyron smithii	Western wheatgrass	P-GRASS	Poaceae
AGRSPI	9	Agropyron spicatum	Bluebunchwheatgrass	P-GRASS	Poaceae
AGRGIT	*	AGROSTEMMA GITHAGO	Corn cockle	A-FORB	Caryophyllaceae
	10		Spikebent	P-GRASS	Poaceae
AGREXA		Agrostis exarata subsp. minor	Ticklegrass	P-GRASS	Poaceae
AGRHYE	1	Agrostis hyemalis	Autumn bent	P-GRASS	Poaceae
AGRPER	2			P-GRASS	Poaceae
AGRSCA	1	Agrostis scabra	Ticklegrass	P-GRASS	Poaceae
AGRSTO		AGROSTIS STOLONIFERA	Redtop		Alismataceae
ALIGRA	2	Alisma gramineum	Narrowleaf water plantain	P-FORB P-FORB	
ALISUB	2	Alisma subcordatum	Common water plantain		Alismataceae
ALITRI	2	Alisma triviale	Large-flowered water plantain	P-FORB	Alismataceae
ALLPET	*	ALLIARIA PETIOLATA	Garlic mustard	B-FORB	Brassicaceae
ALLCAC	8	Allium canadense var. canadense	Wild onion	P-FORB	Liliaceae
ALLCAF	8	Allium canadense var. fraseri	Wild onion	P-FORB	Liliaceae
ALLCAL	8	Allium canadense var. lavendulare	Wild onion	P-FORB	Liliaceae
ALLCER	8	Allium cernuum	Nodding onion	P-FORB	Liliaceae
ALLDRU	10	Allium drummondii	Drummond's onion	P-FORB	Liliaceae
ALLGEY	10	Allium geyeri	Geyer's onion	P-FORB	Liliaceae
ALLPER	9	Allium perdulce	Plains onion	P-FORB	Liliaceae
ALLSTE	7	Allium stellatum	Pink wild onion	P-FORB	Liliaceae
ALLTEX	7	Allium textile	White wild onion	P-FORB	Liliaceae
ALLTRI	10	Allium tricoccum	Wildleek	P-FORB	Liliaceae
ALNINC	9	Alnus incana subsp. rugosa	Speckled alder	SHRUB	Betulaceae
ALOAEQ	2	Alopecurus aequalis	Shortawn foxtail	P-GRASS	Poaceae
ALOARU	*	ALOPECURUS ARUNDINACEUS	Creeping foxtail	P-GRASS	Poaceae
ALOCAR	0	Alopecurus carolinianus	Carolina foxtail	A-GRASS	Poaceae
ALOGEN	0	Alopecurus geniculatus	Marsh foxtail	P-GRASS	Poaceae
ALOPRA	*	ALOPECURUS PRATENSIS	Meadow foxtail	P-GRASS	Poaceae
ALTOFF	*	ALTHAEA OFFICINALIS	Marshmallow	P-FORB	Malvaceae
	*	ALTHAEA OFFICINALIS ALTHAEA ROSEA	Hollyhock	B-FORB	Malvaceae
ALTROS	*			A-FORB	Brassicaceae
ALYALY	*	ALYSSUM ALYSSOIDES	Pale alyssum	A-FORB	Brassicaceae
ALYDES	*	ALYSSUM DESERTORUM	Alyssum	A-FORB	
AMAALB	0	Amaranthus albus	Tumbleweed		Amaranthaceae

Acronym	C	Scientific Name	Common Name	Physiognomy	Family
MAARE	0	Amaranthus arenicola	Sandhills pigweed	A-FORB	Amaranthaceae
MAGRA	0	Amaranthus graecizans	Prostrate pigweed	A-FORB	Amaranthaceae
MAHYB	*	AMARANTHUS HYBRIDUS	Slender pigweed	A-FORB	Amaranthaceae
MARET	0	Amaranthus retroflexus	Rough pigweed	A-FORB	Amaranthaceae
MARUD	0	Amaranthus rudis	Water-hemp	A-FORB	Amaranthaceae
MATUB	0	Amaranthus tuberculatus	Tall waterhemp	A-FORB	Amaranthaceae
MBACA	Ō	Ambrosia acanthicarpa	Annual bursage	A-FORB	Asteraceae
MBART	0	Ambrosia artemisiifolia	Common ragweed	A-FORB	Asteraceae
MBPSI	2	Ambrosia psilostachya	Westernragweed	P-FORB	Asteraceae
MBTOM	0	Ambrosia tomentosa	Perennial bursage	P-FORB	Asteraceae
MBTRI	0	Ambrosia trifida	Giantragweed	A-FORB	Asteraceae
MEALN	6	Amelanchier alnifolia	Saskatoon serviceberry	SHRUB	Rosaceae
MEHUM	6	Amelanchier humilis	Low serviceberry	SHRUB	Rosaceae
MMAUR	2	Ammannia auriculata	Scarlet loosestrife	A-FORB	Lythraceae
MMCOC	2	Ammannia coccinea	Toothcup	A-FORB	Lythraceae
MMROB	2	Ammannia robusta	Grand redstem	A-FORB	Lythraceae
	9		Lead plant	SHRUB	Fabaceae
MOCAN	-	Amorpha canescens	False indigo	SHRUB	Fabaceae
MOFRU	4	Amorpha page		SHRUB	Fabaceae
MONAN	9	Amorpha nana	Dwarf wild indigo		
MPBRA	8	Amphicarpaea bracteata	Hog peanut	H-VINE	Fabaceae
MSINT	0	Amsinckia intermedia	Gander's common fiddleneck	A-FORB	Boraginaceae
NDGER	5	Andropogon gerardii	Big bluestem	P-GRASS	Poaceae
NDHAL	5	Andropogon hallii	Sand bluestem	P-GRASS	Poaceae
NDSCO	6	Andropogon scoparius	Little bluestem	P-GRASS	Poaceae
NDOCC	5	Androsace occidentalis	Westernrock jasmine	A-FORB	Primulaceae
NDSEP	5	Androsace septentrionalis	Northern rock jasmine	A-FORB	Primulaceae
NECAN	4	Anemone canadensis	Meadowanemone	P-FORB	Ranunculaceae
NECAR	8	Anemone caroliniana	Carolina anemone	P-FORB	Ranunculaceae
NECYL	7	Anemone cylindrica	Candle anemone	P-FORB	Ranunculaceae
NEMUL	8	Anemone multifida	Pacific anemone	P-FORB	Ranunculaceae
NEPAT	9	Anemone patens	Pasque flower	P-FORB	Ranunculaceae
NEQUI	10	Anemone quinquefolia	Wood anemone	P-FORB	Ranunculaceae
NEVIR	8	Anemone virginiana	Tall anemone	P-FORB	Ranunculaceae
NEGRA	*	ANETHUM GRAVEOLENS	Dill	A-FORB	Apiaceae
NTMIC	7	Antennaria microphylla	Pink pussytoes	P-FORB	Asteraceae
INTNEG	5	Antennaria neglecta	Field pussytoes	P-FORB	Asteraceae
NTNEO	7	Antennaria neodioica	Northern pussytoes	P-FORB	Asteraceae
NTPAL	10	Antennaria parlinii	Plainleaf pussytoes	P-FORB	Asteraceae
NTPAV	6	Antennaria parvifolia	Pussytoes	P-FORB	Asteraceae
NTARV	*	ANTHEMIS ARVENSIS	Corn chamomile	A-FORB	Asteraceae
NTCOT	*	ANTHEMIS COTULA	Dog fennel	A-FORB	Asteraceae
NTTIN	*	ANTHEMISTINCTORIA	Yellow chamomile	P-FORB	Asteraceae
PIAME	9	Apios americana	Groundnut	H-VINE	Fabaceae
POAND	6	Apocynum androsaemifolium	Spreading dogbane	P-FORB	Apocynaceae
POCAN	4	Apocynum cannabinum	Indian hemp dogbane	P-FORB	Apocynaceae
QUCAN	8	Aquilegia canadensis	Wild columbine	P-FORB	Ranunculaceae
	10	Arabis canadensis	Sicklepod	B-FORB	Brassicaceae
RADIV	9	Arabis divaricarpa	Spreadingpod rockcress	B-FORB	Brassicaceae
RADRU	8	Arabis divancarpa Arabis drummondii	Drummond's rockcress	B-FORB	Brassicaceae
RAGLA	6	Arabis glabra	Towerrockcress	B-FORB	Brassicaceae
RAHIR	7	Arabis yiabra Arabis hirsuta var. pycnocarpa	Creamflower rockcress	B-FORB	Brassicaceae
RAHOC	5	Arabis holboellii var. collinsii	Collin's rockcress	B-FORB	Brassicaceae
RAHOD	5 5	Arabis holboelliivar, pinetorum	Holboeli's rockcress	B-FORB	Brassicaceae
	อ 10	Arabis riolibuelli vai . pirieturum Arabis shortii	Short's rockcress	B-FORB	Brassicaceae
			Wild sarsaparilla	P-FORB	Araliaceae
	10	Aralia nudicaulis		P-FORB	Araliaceae
	10	Aralia racemosa	Spikenard	B-FORB	Asteraceae
RCMIN	*	ARCTIUM MINUS	Common burdock		Asteraceae Ericaceae
RCUVA	8	Arctostaphylos uva-ursi	Bearberry	SHRUB P-FORB	
REH00	8	Arenaria hookeri	Hooker's sandwort Grove sandwort	P-FORB	Caryophyllaceae Caryophyllaceae
		Arenaria lateriflora	I*rove canowort	r-runn	Larvoodviiaceae
RELAT RESTR	8	Arenaria stricta subsp. dawsonensis	Rocksandwort	P-FORB	Caryophyllaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
ARITRI	10	Arisaema triphyllum	Jack-in-the-pulpit	P-FORB	Araceae
ARIBAS	0	Aristida basiramea var. curtissii	Foxtip three-awn	A-GRASS	Poaceae
ARIOLI	0	Aristida oligantha	Prairie three-awn	A-GRASS	Poaceae
ARIPUR	4	Aristida purpurea var. robusta	Red three-awn	P-GRASS	Poaceae
ARMRUS	*	ARMORACIA RUSTICANA	Horseradish	P-FORB	Brassicaceae
ARNFUL	10	Arnica fulgens	Amica	P-FORB	Asteraceae
artabs	*	ARTEMISIA ABSINTHIUM	Wormwood	P-FORB	Asteraceae
ARTBIE	*	ARTEMISIA BIENNIS	Biennial wormwood	B-FORB	Asteraceae
ARTCAM	5	Artemisia campestris subsp. caudata	Western sagewort	B-FORB	Asteraceae
ARTCAN	7	Artemisia cana	Dwarf sagebrush	SHRUB	Asteraceae
ARTDRA	4	Artemisia dracunculus	Silky wormwood	P-FORB	Asteraceae
ARTFIL	6	Artemisia filifolia	Sand sagebrush	SHRUB	Asteraceae
ARTFRI	4	Artemisia frigida	Prairie sagewort	SHRUB	Asteraceae
ARTLON	7	Artemisia longifolia	Long-leaved sage	P-FORB	Asteraceae
ARTLUD	3	Artemisia ludoviciana var. ludoviciana	White sage	P-FORB	Asteraceae
ARTTRI	7	Artemisia tridentata	Big sagebrush	SHRUB	Asteraceae
ASACAN	10	Asarum canadense	Wild ginger	P-FORB	Aristolochiaceae
ASCARE	8	Asclepias arenaria	Sand milkweed	P-FORB P-FORB	Asclepiadaceae
ASCINC	5	Asclepias incarnata	Swamp milkweed		Asclepiadaceae
ASCLAN	10	Asclepias lanuginosa	Woofly milkweed	P-FORB P-FORB	Asclepiadaceae
ASCOVA	9	Asclepias ovalifolia	Ovalleaf milkweed	P-FORB	Asclepiadaceae Asclepiadaceae
ASCPUM	7	Asclepias pumila	Plains milkweed		
ASCSPE	4	Asclepias speciosa	Showy milkweed Smooth milkweed	P-FORB P-FORB	Asclepiadaceae
ASCSUL	10	Asclepias sullivantii	Common milkweed	P-FORB	Asclepiadaceae Asclepiadaceae
ASCSYR	0	Asclepias syriaca	<del>-</del>		
ASCTUB	9	Asclepias tuberosa	Butterfly milkweed Whorled milkweed	P-FORB P-FORB	Asclepiadaceae Asclepiadaceae
ASCVER	3	Asclepias verticillata	Green milkweed	P-FORB	Asclepiadaceae
ASCVIR	8	Asclepias viridiflora		P-FORB	Liliaceae
ASPOFF	*	ASPARAGUS OFFICINALIS ASPERUGO PROCUMBENS	Asparagus Madwort	A-FORB	Boraginaceae
ASPPRO			Rayless aster	A-FORB	Asteraceae
ASTBRA ASTCIL	0 8	Aster brachyactis Aster ciliolatus	Lindley's aster	P-FORB	Asteraceae
ASTCIL	4	Aster commutatus	White prairie aster	P-FORB	Asteraceae
ASTERI	2	Aster ericoides	White aster	P-FORB	Asteraceae
ASTEAL	4	Aster falcatus	White prairie aster	P-FORB	Asteraceae
ASTHES	4	Aster hesperius	Panicled aster	P-FORB	Asteraceae
ASTJUN	10	Aster junciformis	Northern bog aster	P-FORB	Asteraceae
ASTLAE	5	Aster Jaevis	Smooth blue aster	P-FORB	Asteraceae
ASTLAT	10	Aster lateriflorus	White woodland aster	P-FORB	Asteraceae
ASTLUC	10	Aster lucidulus	Purplestem aster	P-FORB	Asteraceae
ASTNOV	8	Aster novae-angliae	New England aster	P-FORB	Asteraceae
ASTOBL	8	Aster oblongifolius	Aromatic aster	P-FORB	Asteraceae
ASTONT	10	Aster ontarionis	Missouri aster	P-FORB	Asteraceae
AST00L	10	Aster oolentangiensis	Azure aster	P-FORB	Asteraceae
<b>ASTPAN</b>	4	Asterpansus	Many-flowered aster	P-FORB	Asteraceae
<b>ASTPAU</b>	10	Aster pauciflorus	Few-flowered aster	P-FORB	Asteraceae
<b>ASTPIL</b>	1	Aster pilosus	Hairy aster	P-FORB	Asteraceae
<b>ASTPUB</b>	9	Aster pubentior	Flat-top aster	P-FORB	Asteraceae
<b>ASTPUN</b>	10	Aster puniceus	Swamp aster	P-FORB	Asteraceae
ASTSAG	8	Aster sagittifolius	Arrow-leaved aster	P-FORB	Asteraceae
ASTSER	10	Astersericeus	Silky aster	P-FORB	Asteraceae
ASTSIR	3	Aster simplex var. ramosissimus	Panicled aster	P-FORB	Asteraceae
ASTSIS	3	Aster simplex var. simplex	Panicled aster	P-FORB	Asteraceae
ASTAB0	9	Astragalus aboriginum	Indian milkvetch	P-FORB	Fabaceae
ASTADS	8	Astragalus adsurgens var. robustior	Standing milkvetch	P-FORB	Fabaceae
ASTAGR	6	Astragalus agrestis	Field milkvetch	P-FORB	Fabaceae
ASTBAR	10	Astragalus barrii	Barrorphaca	P-FORB	Fabaceae
ASTBIS	5	Astragalus bisulcatus	Two-grooved vetch	P-FORB	Fabaceae
	5	Astragalus canadensis	Canada milkvetch	P-FORB	Fabaceae
ASTCAN					
ASTCER	10	Astragalus ceramicus var. filifolius	Painted milkvetch	P-FORB	Fabaceae
			Painted milkvetch Groundplum Drummond milkvetch	P-FORB P-FORB P-FORB	Fabaceae Fabaceae Fabaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
ASTFLE	4	Astragalus flexuosus	Pliant milkvetch	P-FORB	Fabaceae
ASTGIL	7	Astragalus gilviflorus	Plains orophaca	P-FORB	Fabaceae
ASTGRA	8	Astragalus gracilis	Slender milkvetch	P-FORB	Fabaceae
ASTKEN	10	Astragalus kentrophyta	Nuttall's kentrophyta	P-FORB	Fabaceae
ASTLOT	6	Astragalus lotiflorus	Lotus milkvetch	P-FORB	Fabaceae
ASTMIS	7	Astragalus missouriensis	Missourimilkvetch	P-FORB	Fabaceae
ASTMOL	8	Astragalus mollissimus	Woollylocoweed	P-FORB	Fabaceae
ASTNEG	5	Astragalus neglectus	Coopermilkvetch	P-FORB	Fabaceae
ASTPEC	8	Astragalus pectinatus	Tineleaf milkvetch	P-FORB	Fabaceae
	10	Astragalus plattensis	Platte River milkvetch	P-FORB	Fabaceae
	10	Astragalus purshii	Pursh milkvetch	P-FORB	Fabaceae
ASTRAC	7	Astragalus racemosus	Alkali milkvetch	P-FORB	Fabaceae
ASTSPA	7	Astragalus spatulatus	Draba milkvetch	P-FORB	Fabaceae
ASTTEN	8	Astragalus tenellus	Pulse milkvetch	P-FORB	Fabaceae
	10	Astragalus vexilliflexus	Bentflower milkvetch	P-FORB	Fabaceae
			Ladyfern	FERN	Polypodiaceae
ATHFIL	8	Athyrium filix-feminavar. angustum	Silver-scale saltbush	A-FORB	Chenopodiaceae
ATRARG	6	Atriplex argentea		SHRUB	Chenopodiaceae
ATRCAN	6	Atriplex canescens	Fourwing saltbush		
TRCON	8	Atriplex confertifolia	Spiny saltbush	SHRUB	Chenopodiaceae
ATRDIO	4	Atriplex dioica	Sillscale	A-FORB	Chenopodiaceae
ATRHET	0	Atriplex heterosperma	Twoscale saltbush	A-FORB	Chenopodiaceae
ATRHOR	*	ATRIPLEX HORTENSIS	Orache	A-FORB	Chenopodiaceae
ATRNUT	6	Atriplex nuttallii	Moundscale	SHRUB	Chenopodiaceae
ATRPOW	5	Atriplex powellii	Powell's saltbush	A-FORB	Chenopodiaceae
ATRROS	*	ATRIPLEXROSEA	Redscale	A-FORB	Chenopodiaceae
ATRSUB	2	Atriplex subspicata	Spearscale	A-FORB	Chenopodiaceae
AVEFAT	*	AVENA FATUA	Wild oats	A-GRASS	Poaceae
AMAYX	*	AXYRIS AMARANTHOIDES	Russian pigweed	A-FORB	Chenopodiaceae
AZOMEX	10	Azolla mexicana	Mosquito fern	FERN	Salviniacea
BACROT	3	Bacopa rotundifolia	Water hyssop	P-FORB	Scrophulariaceae
BARVUL	*	BARBAREA VULGARIS	Winter cress	B-FORB	Brassicaceae
BECSYZ	1	Beckmannia syzigachne	American sloughgrass	A-GRASS	Poaceae
BELCHI	*	BELAMCANDA CHINENSIS	Blackberry lily	P-FORB	Iridaceae
BELPER	*	BELLIS PERENNIS	English dairy	P-FORB	Asteraceae
BERREP	8	Berberis repens	Oregon grape	SHRUB	Berberidaceae
BERTEX	8	Bergia texana	Texas bergia	A-FORB	Elatinaceae
BERINC	*	BERTEROA INCANA	Hoary false alyssum	A-FORB	Brassicaceae
BERERE	9	Berula erectavar. incisum	Cutleafwaterparsnip	P-FORB	Apiaceae
	10	Betula glandulosa var. glandulifera	Bog birch	SHRUB	Betulaceae
			Mountain birch	SHRUB	Betulaceae
BETOCC	8	Betula occidentalis	Paperbirch	TREE	Betulaceae
BETPAP	8	Betula papyrifera	•	A-FORB	Asteraceae
BIDCER	3	Bidens cernua	Nodding beggartick Swamp tickseed	A-FORB	Asteraceae
BIDCOM	2	Bidens comosa		A-FORB	Asteraceae
BIDCON	3	Bidens connata	Sticktight Tickgood curflower	A-FORB	Asteraceae
BIDCOR	3	Bidens coronata	Tickseed sunflower		
SIDFRO	1	Bidens frondosa	Devil's beggartick	A-FORB	Asteraceae
BIDVUL	1	Bidens vulgata	Big devil's beggartick	A-FORB	Asteraceae
BOECYL	5	Boehmeria cylindrica	False nettle	P-FORB	Urticaceae
	10	Boisduvalia glabella	Smooth spike-primrose	A-FORB	Onagraceae
OLASL	3	Boltonia asteroides var. latisquama	Violet boltonia	P-FORB	Asteraceae
OLASR	3	Boltonia asteroides var. recognita	White boltonia	P-FORB	Asteraceae
OTCAM	8	Botrychium campestre	Grapefern	FERN	Ophioglossaceae
	10	Botrychium minganense	Grapefern	FERN	Ophioglossaceae
OTMUL	10	Botrychium multifidum	Leathery grapefern	FERN	Ophioglossaceae
OTSIM	10	Botrychium simplex	Little grapefern	FERN	Ophioglossaceae
OTVIR	7	Botrychium virginianum	Rattlesnake fern	FERN	Ophioglossaceae
OUCUR	5	Bouteloua curtipendula	Sideoats grama	P-GRASS	Poaceae
OUGRA	7	Bouteloua gracilis	Blue grama	P-GRASS	Poaceae
OUHIR	7	Bouteloua hirsuta	Hairy grama	P-GRASS	Poaceae
RACAM	*	BRASSICA CAMPESTRIS	Wild turnip	A-FORB	Brassicaceae
. 2 10/ 11/1	*	BRASSICA HIRTA	White mustard	A-FORB	Brassicaceae
BRAHIR	~				

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
BRAKAB	*	BRASSICA KABER	Charlock	A-FORB	Brassicaceae
BRANIG	*	BRASSICA NIGRA	Blackmustard	A-FORB	Brassicaceae
BROCIL	10	Bromus ciliatus	Fringed brome	P-GRASS	Poaceae
BROINE	*	BROMUS INERMIS SUBSP. INERMIS	Smooth brome	P-GRASS	Poaceae
BROJAP	*	BROMUS JAPONICUS	Japanese brome	A-GRASS	Poaceae
BROKAL	8	Bromus kalmii	Arctic brome	P-GRASS	Poaceae
BROLAT	8	Bromus latiglumis	Earleaf brome	P-GRASS	Poaceae
BROPOR	8	Bromus porteri	Nodding brome	P-GRASS	Poaceae
BROPUB	8	Bromus pubescens	Canada brome	P-GRASS	Poaceae
BROSQU	*	BROMUS SQUARROSUS	Nodding brome	A-GRASS	Poaceae
	*	BROMUSTECTORUM	Downy brome	A-GRASS	Poaceae
BROTEC	*			A-GRASS	Poaceae
BROUNI		BROMUSUNIOLOIDES	Rescue grass	P-GRASS	Poaceae
BUCDAC	4	Buchloe dactyloides	Buffalo grass		
BUTUMB	*	BUTOMUSUMBELLATUS	Flowering rush	P-FORB	Butomaceae
CACPLA	10	Cacalia plantaginea	Indian plantain	P-FORB	Asteraceae
CALCAN	5	Calamagrostis canadensis	Bluejoint	P-GRASS	Poaceae
CALMON	8	Calamagrostis montanensis	Plains reedgrass	P-GRASS	Poaceae
CALSTR	5	Calamagrostis stricta	Slimstem reedgrass	P-GRASS	Poaceae
CALLON	5	Calamovilfa longifolia	Prairie sandreed	P-GRASS	Poaceae
CALPAL	10	Calla palustris	Wild calla	P-FORB	Araceae
CALINV	4	Callirhoe involucrata	Purple poppy mallow	P-FORB	Malvaceae
CALHER	7	Callitriche hermaphroditica	Northern water starwort	P-FORB	Callitrichaceae
CALHET	10	Callitriche heterophylla	Large water starwort	P-FORB	Callitrichaceae
CALVER	7	Callitriche verna	Vernal water starwort	P-FORB	Callitrichaceae
CALGUN	8	Calochortus gunnisonii	Gunnison's mariposa lily	P-FORB	Liliaceae
CALNUT	8	Calochortus guillilii	Sego lily	P-FORB	Liliaceae
CALTPA	9	Caltha palustris	Marshmarigold	P-FORB	Ranunculaceae
	7		Plains yellow primrose	P-FORB	Onagraceae
CALSER		Calylophus serrulatus	Macoun's false bindweed	P-FORB	Convolvulaceae
CALMAC	2	Calystegia macounii	Hedge bindweed	P-FORB	Convolvulaceae
CALSEP	0 *	Calystegia sepiumvar. angulata		A-FORB	Brassicaceae
CAMMIC		CAMELINA MICROCARPA	Small-seeded false flax		Brassicaceae
CAMSAT	*	CAMELINA SATIVA	Gold-of-pleasure	A-FORB	
CAMAME	8	Campanula americana	American bellflower	A-FORB	Campanulaceae
Camapa	10	Campanula aparinoides	Marsh bellflower	P-FORB	Campanulaceae
CAMRAP	*	CAMPANULA RAPUNCULOIDES	Creeping bellflower	P-FORB	Campanulaceae
CAMROT	7	Campanula rotundifolia	Harebell	P-FORB	Campanulaceae
CAMRAD	*	CAMPSISRADICANS	Trumpetvine	W-VINE	Bignoniaceae
CANSAT	*	CANNABIS SATIVA	Hemp	A-FORB	Cannabaceae
CAPBUR	*	CAPSELLA BURSA-PASTORIS	Shepherd's purse	A-FORB	Brassicaceae
CARARB	*	CARAGANA ARBORESCENS	Siberian pea-shrub	SHRUB	Fabaceae
CARBUL	8	Cardamine bulbosa	Spring cress	P-FORB	Brassicaceae
CARCON	8	Cardamine concatenata	Toothcup	P-FORB	Brassicaceae
CARPEN	6	Cardamine pensylvanica	Bitter cress	A-FORB	Brassicaceae
CARCHA	*	CARDARIA CHALEPENSIS	Lens-padded hoary cress	P-FORB	Brassicaceae
CARDRA	*	CARDARIA DRABA	Hoary cress	P-FORB	Brassicaceae
CARPUB	*	CARDARIA PUBESCENS	Whitetop	P-FORB	Brassicaceae
CARACA	*	CARDUUS ACANTHOIDES	Plumeless thistle	A-FORB	Asteraceae
CARNUT	*	CARDUUS NUTANS	Nodding thistle	A-FORB	Asteraceae
				P-SEDGE	Cyperaceae
CXAENA	10	Carex aenea	Dryspike sedge	P-SEDGE P-SEDGE	Cyperaceae
CXAGGR	10	Carex aggregata	Glomerate sedge		
CXALOP	7	Carex alopecoidea	Foxtail sedge	P-SEDGE	Cyperaceae
CXAMPH	4	Carex amphibola var. turgida	Graysedge	P-SEDGE	Cyperaceae
CXAQUA	10	Carex aquatilis var. altior	Watersedge	P-SEDGE	Cyperaceae
CXASSI	8	Carex assiniboinensis	Assiniboia sedge	P-SEDGE	Cyperaceae
CXATHE	4	Carex atherodes	Sloughsedge	P-SEDGE	Cyperaceae
CXATHR	7	Carex athrostachya	Slenderbeak sedge	P-SEDGE	Cyperaceae
CXAURE	8	Carex aurea	Golden sedge	P-SEDGE	Cyperaceae
CXBACK	10	Carex backii	Back's sedge	P-SEDGE	Cyperaceae
CXBEBB	8	Carex bebbii	Bebb's sedge	P-SEDGE	Cyperaceae
	8	Carex bicknellii	Bicknell's sedge	P-SEDGE	Cyperaceae
LXBII K	U	out on biornionii	Didition d dougo		-11
CXBICK CXBLAN	5	Carex blanda	Woodland sedge	P-SEDGE	Cyperaceae

Acronym	n C	Scientific Name	Common Name	Physiognomy	Family
CXBRUN	10	Carex brunnescens	Brownish sedge	P-SEDGE	Cyperaceae
CXBUXB	10	Carex buxbaumii	Brown bog sedge	P-SEDGE	Cyperaceae
CXCAPI	10	Carex capillaris var. elongata	Hairlike sedge	P-SEDGE	Cyperaceae
CXCHOR	10	Carex chordorrhiza	Creeping sedge	P-SEDGE	Cyperaceae
CXCOMO	10	Carex comosa	Bristly sedge	P-SEDGE	Cyperaceae
CXCONC	10	Carex concinna	Low northern sedge	P-SEDGE	Cyperaceae
CXCONV	8	Carex convoluta	Stellate sedge	P-SEDGE	Cyperaceae
CXCRAW	9	Carex crawei	Crawe's sedge	P-SEDGE	Cyperaceae
CXCRIS	7	Carex cristatella	Crested sedge	P-SEDGE	Cyperaceae
CXDAVI	10	Carex davisii	Davis's sedge	P-SEDGE	Cyperaceae
CXDEWE	10	Carex deweyana	Deweysedge	P-SEDGE	Cyperaceae
CXDIAN	10	Carex diandra	Lesser panicled sedge	P-SEDGE	Cyperaceae
CXDISP	9	Carex disperma	Softleafsedge	P-SEDGE	Cyperaceae
CXDOUG	5	Carex douglasii	Douglas's sedge	P-SEDGE	Cyperaceae
CXEBUR	10	Carex eburnea	Bristleleaf sedge	P-SEDGE	Cyperaceae
<b>CXELEO</b>	4	Carex eleocharis	Needleleafsedge	P-SEDGE	Cyperaceae
CXEMOR	4	Carex emoryi	Emory's sedge	P-SEDGE	Cyperaceae
CXFILI	7	Carex filifolia	Threadleafsedge	P-SEDGE	Cyperaceae
CXFORM	10	Carex formosa	Handsome sedge	P-SEDGE	Cyperaceae
CXGARB	10	Carex garberi	Elk sedge	P-SEDGE	Cyperaceae
CXGRAC	10	Carex gracillima	Graceful sedge	P-SEDGE	Cyperaceae
CXGRAN	6	Carex granularis var. granularis	Meadow sedge	P-SEDGE	Cyperaceae
CXGRAH	6	Carex granularisvar. haleana	Meadow sedge	P-SEDGE	Cyperaceae
CXGRAG	5	Carex gravida var. gravida	Heavy sedge Teacher	P-SEDGE	Cyperaceae
CXGRAL	5	Carex gravida var. lunelliana	Heavysedge	P-SEDGE	Cyperaceae
CXHALL	10	Carex hallii	Deersedge	P-SEDGE	Cyperaceae
CXHAYD	10	Carex haydenii	Cloud sedge	P-SEDGE	Cyperaceae
CXHELI	7	Carex heliophila	Sun sedge	P-SEDGE	Cyperaceae
CXHOOK	10	Carex hookeriana	Hooker's sedge	P-SEDGE	Cyperaceae
CXHYST	7	Carex hystericina	Bottlebrush sedge	P-SEDGE	Cyperaceae
CXINTE	10	Carex interior	Interior sedge	P-SEDGE	Cyperaceae
CXLACU	6	Carex lacustris	Hairy sedge	P-SEDGE	Cyperaceae
CXLAEV	6	Carex laeviconica	Smoothcone sedge	P-SEDGE	Cyperaceae
CXLANU	4	Carex lanuginosa	Woolly sedge	P-SEDGE	Cyperaceae
CXLEPT	10	Carex leptalea	Bristle-stalked sedge	P-SEDGE	Cyperaceae
CXLIMO	10	Carex limosa	Mudsedge	P-SEDGE	Cyperaceae
CXMEAD	7	Carex meadii	Mead's sedge	P-SEDGE	Cyperaceae
CXMOLE	3	Carex molesta .	Troublesome sedge	P-SEDGE	Cyperaceae
CXNEBR	6	Carex nebrascensis	Nebraska sedge	P-SEDGE	Cyperaceae
CXNORM	7	Carex normalis	Larger straw sedge	P-SEDGE	Cyperaceae
CXOBTU	8	Carex obtusata	Obtuse sedge	P-SEDGE	Cyperaceae
CXPECK	10	Carex peckii	Peck's sedge	P-SEDGE	Cyperaceae
CXPEND	10	Carex pendunculata	Longstalk sedge	P-SEDGE	Cyperaceae
CXPENS	8	Carex pensylvanica	Pennsylvania sedge Clustered-field sedge	P-SEDGE P-SEDGE	Cyperaceae Cyperaceae
CXPRAE	5	Carex praegracilis			
CXPRAI	10	Carex prairea	Prairie sedge	P-SEDGE P-SEDGE	Cyperaceae Cyperaceae
CXPSEU	10	Carex pseudocyperus	Cypresslike sedge	P-SEDGE P-SEDGE	
CXRETR	6	Carex retrorsa	Knotsheath sedge Richardson's sedge	P-SEDGE P-SEDGE	Cyperaceae Cyperaceae
CXRICH	9	Carex richardsonii		P-SEDGE P-SEDGE	* * * * * * * * * * * * * * * * * * * *
CXROSE	8	Carexrosea	Stellate sedge	P-SEDGE P-SEDGE	Cyperaceae Cyperaceae
CXROSS	10	Carexrossii	Ross' sedge Beaked sedge	P-SEDGE P-SEDGE	Cyperaceae
CXROST	8	Carex parts vallii		P-SEDGE P-SEDGE	Cyperaceae
CXSART	5	Carex sartwellii	Sartwell's sedge Rocky Mountain sedge	P-SEDGE P-SEDGE	Cyperaceae
CXSAXI	10	Carex saximontana		P-SEDGE P-SEDGE	Cyperaceae
CXSCIR	10	Carex scirpiformis	Northern singlespike sedge Broom sedge	P-SEDGE P-SEDGE	Cyperaceae
CXSCOP	8	Carex scoparia	Analogue sedge	P-SEDGE P-SEDGE	Cyperaceae
CXSIMU	10	Carex simulata	Burreed sedge	P-SEDGE	Cyperaceae
CXSPAR	10	Carex sparganioides	Longbeak sedge	P-SEDGE	Cyperaceae
CXSPRE	7	Carex sprengelii Carex sterilis	Dioecious sedge	P-SEDGE	Cyperaceae
CXSTER	10		Sawbeak sedge	P-SEDGE	Cyperaceae
CXSTIP CXSTRI	7 10	Carex stipata Carex stricta	Tussocksedge	P-SEDGE	Cyperaceae
OVOLUI	10	Galex Stillta	1 ussock seage	I OLDUL	турогиосис

Acronym	C	Scientific Name	Common Name	Physiognomy	Family
CXSYCH	7	Carex sychnocephala	Manyhead sedge	P-SEDGE	Cyperaceae
CXTENE	7	Carextenera	Slender sedge	P-SEDGE	Cyperaceae
CXTETA	9	Carextetanica	Rigid sedge	P-SEDGE	Cyperaceae
CXTORR	10	Carextorreyi	Torrey's sedge	P-SEDGE	Cyperaceae
CXTRIB	8	Carex tribuloides	Blunt broom sedge	P-SEDGE	Cyperaceae
CXVALL	10	Carex vallicola	Valleysedge	P-SEDGE	Cyperaceae
CXVESI	10	Carex vesicaria var. monile	Inflated sedge	P-SEDGE	Cyperaceae
CXVIRI	10	Carex viridula	Little green sedge	P-SEDGE	Cyperaceae
CXVULP	2	Carex vulpinoidea	Fox sedge	P-SEDGE	Cyperaceae
CXXERA	10	Carexxerantica	Whitescale sedge	P-SEDGE	Cyperaceae
CARCAR	*	CARUM CARVI	Caraway	B-FORB	Apiaceae
CASCHA	2	Cassia chamaecrista	Showy partridge pea	A-FORB	Caesalpiniaceae
CASMIN	10	Castilleja miniata	Giant red indian paintbrush	P-FORB	Scrophulariaceae
CASSES	8	Castilleja sessiliflora	Downy paintbrush	P-FORB P-GRASS	Scrophulariaceae Poaceae
CATAQU	9	Catabrosa aquatica	Brookgrass	TREE	Bignoniaceae
CATSPE	*	CATALPA SPECIOSA	Northern catalpa	P-FORB	Berberidaceae
CAUTHA	10	Caulophyllum thalictroides	Blue cohosh New Jersey tea	SHRUB	Rhamnaceae
CEAHER	10	Ceanothus herbaceus var. pubescens	American bittersweet	W-VINE	Celastraceae
CELSCA	5	Celastrus scandens	Hackberry	TREE	Ulmaceae
CELOCC	5	Celtis occidentalis	Field sandbur	A-GRASS	Poaceae
CENLON	0 *	Cenchrus longispinus	Bachelor's button	A-FORB	Asteraceae
CENCYA	*	CENTAUREA CYANUS CENTAUREA MACULOSA	Spotted knapweed	B-FORB	Asteraceae
CENMAC	*	CENTAUREA REPENS	Russian knapweed	P-FORB	Asteraceae
CENREP CENSCA	*	CENTAUREA SCABIOSA	Greater centaurea	P-FORB	Asteraceae
CENSOL	*	CENTAUREA SOLSTITIALIS	Yellow star thistle	B-FORB	Asteraceae
CENEXA	*	CENTAURIUM EXALTATUM	Desert centaury	A-FORB	Gentianaceae
CENMIN	6	Centunculus minimus	Chaffweed	A-FORB	Primulaceae
CERARV	2	Cerastium arvense	Prairie chickweed	P-FORB	Caryophyllaceae
CERBRA	1	Cerastium brachypodum	Nodding chickweed	A-FORB	Caryophyllaceae
CERNUT	i	Cerastium nutans	Nodding chickweed	A-FORB	Caryophyllaceae
CERVUL	*	CERASTIUM VULGATUM	Common mouseear chickweed	P-FORB	Caryophyllaceae
CERLAN	8	Ceratoides lanata	Winterfat	SHRUB	Chenopodiaceae
CERDEM	4	Ceratophyllum demersum	Coontail	P-FORB	Ceratophyllaceae
CHADOU	9	Chaenactis douglassiivar. achillaefolia	Douglas' dustymaiden	P-FORB	Asteraceae
CHAMIN	*	CHAENORRHINUM MINUS	Dwarf snapdragon	A-FORB	Scrophulariaceae
CHAERE	6	Chamaerhodos erecta	Little ground rose	P-FORB	Rosaceae
CHEFEE	10	Cheilanthes feei	Slender lip fern	FERN	Polypodiaceae
CHEALB	*	CHENOPODIUM ALBUM	Lamb's quarters	A-FORB	Chenopodiaceae
CHEBER	0	Chenopodium berlandieri	Pitseed goosefoot	A-FORB	Chenopodiaceae
CHEBOT	*	CHENOPODIUM BOTRYS	Jerusalem oak	A-FORB	Chenopodiaceae
CHEBUS	0	Chenopodium bushianum	Goosefoot	A-FORB	Chenopodiaceae
CHECAP	*	CHENOPODIUM CAPITATUM	Strawberry blite	A-FORB	Chenopodiaceae
CHEDES	5	Chenopodium desiccatum	Sandhill goosefoot	A-FORB	Chenopodiaceae
CHEFRE	3	Chenopodium fremontii	Fremont goosefoot	A-FORB	Chenopodiaceae Chenopodiaceae
CHEGIG	5	Chenopodium gigantospermum	Mapleleaf goosefoot	A-FORB	
CHEGLA	*	CHENOPODIUM GLAUCUM	Oakleaf goosefoot	A-FORB	Chenopodiaceae Chenopodiaceae
CHEINC	2	Chenopodium incanum	Hoary goosefoot	A-FORB	Chenopodiaceae
CHERUB	2	Chenopodium rubrum	Alkali blite	A-FORB A-FORB	Chenopodiaceae
CHESTA	4	Chenopodium standleyanum	Woodland goosefoot Lateflowering goosefoot	A-FORB	Chenopodiaceae
CHESTR	3	Chenopodium strictum	Smooth goosefoot	A-FORB	Chenopodiaceae
CHESUB	8	Chenopodium subglabrum	Prince's pine	P-FORB	Pyrolaceae
CHIUMB	10	Chimaphila umbellata Chloris verticillata	Windmill grass	P-GRASS	Poaceae
CHLVER	2	CHLORIS VIRGATA	Showy chloris	A-GRASS	Poaceae
CHLVIR CHOTEN	*	CHORISPORATENELLA	Blue mustard	A-FORB	Brassicaceae
CHRLEU	*	CHONSFORA TENELLA CHRYSANTHEMUM LEUCANTHEMUM	Ox-eye daisy	P-FORB	Asteraceae
CHRPAR	*	CHRYSANTHEMUM PARTHENIUM	Feverfew	P-FORB	Asteraceae
CHRSTE	8	Chrysopsis stenophylla	Stiffleaf false goldenaster	P-FORB	Asteraceae
CHRVIA	3	Chrysopsis stenophyna Chrysopsis villosa var. angustifolia	Stiffleaf false goldenaster	P-FORB	Asteraceae
CHRVIH	3	Chrysopsis villosa var. hispida	Hairy false goldenaster	P-FORB	Asteraceae
CHRVIV	3	Chrysopsis villosa var. villosa	Hairy false goldenaster	P-FORB	Asteraceae
GINIVIV	J	om youpoid vinoda vat. vinoda		-	

Acronym	ı C	Scientific Name	Common Name	Physiognomy	Family
CHRNAG	4	Chrysothamnus nauseosus subsp. graveolens	Rubberrabbitbrush	SHRUB	Asteraceae
CHRNAN	4	Chrysothamnus nauseosus subsp. nauseosus	Rubberrabbitbrush	SHRUB	Asteraceae
CHRPAR	5	Chrysothamnus parryi subsp. howardii	Parry's rabbitbrush	SHRUB	Asteraceae
CICINT	*	CICHORIUM INTYBUS	Common chicory	P-FORB	Asteraceae
CICBUL	9	Cicuta bulbifera	Bulbous water hemlock	B-FORB	Apiaceae
CICMAC	4	Cicuta maculata	Common water hemlock	P-FORB	Apiaceae
CINARU	8	Cinna arundinacea	Woodreed	P-GRASS	Poaceae
CINLAT	8	Cinna latifolia	Drooping woodreed	P-GRASS	Poaceae
CIRALP	10	Circaea alpina	Small enchanter's nightshade	P-FORB	Onagraceae
CIRLUT	4	Circaea lutetiana subsp. canadensis	Enchanter's nightshade	P-FORB	Onagraceae
CIRALT	3	Cirsium altissimum	Tall thistle	B-FORB	Asteraceae
CIRARV	*	CIRSIUM ARVENSE	Canada thistle	P-FORB	Asteraceae
CIRCAN	8	Cirsium canescens	Platte thistle	P-FORB	Asteraceae
CIRFLO	5	Cirsium flodmanii	Flodman's thistle	P-FORB	Asteraceae
CIRMUT	10	Cirsium muticum	Swamp thistle	B-FORB	Asteraceae
CIRUND	7	Cirsium undulatum	Wavyleafthistle	P-FORB	Asteraceae
CIRVUL	*	CIRSIUM VULGARE	Bullthistle	B-FORB	Asteraceae
CLELIG	7	Clematis ligusticifolia	Western clematis	W-VINE	Ranunculaceae
CLEVIR	4	Clematis virginiana	Virgin's bower	W-VINE	Ranunculaceae
CLESER	2	Cleome serrulata	Rocky Mountain bee plant	A-FORB	Capparaceae
COLPAR	10	Collinsia parviflora	Blue lips	A-FORB	Scrophulariaceae
COLLIN	5	Collomia linearis	Collomia	A-FORB	Polemoniaceae
COMUMB	8	Comandra umbellata	Bastardtoadflax	P-FORB	Santalaceae
COMCOM	- <b>X</b> -	COMMELINA COMMUNIS	Dayflower	A-FORB	Commelinaceae
COMERE	10	Commelina erecta	Erectdayflower	P-FORB	Commelinaceae
CONMAC	*	CONIUM MACULATUM	Poison hemlock	B-FORB	Apiaceae
CONORI	*	CONRINGIA ORIENTALIS	Hare's-ear mustard	A-FORB	Brassicaceae
CONARV	*	CONVOLVULUS ARVENSIS	Field bindweed	P-FORB	Convolvulaceae
CONCAN	0	Conyza canadensis	Horseweed	A-FORB	Asteraceae
CONRAM	0	Conyza ramosissima	Spreading fleabane	A-FORB	Asteraceae
CORMAC	8	Corallorhiza maculata	Spotted coralroot	P-FORB	Orchidaceae
CORSTR	9	Corallorhiza striata	Striped coralroot	P-FORB	Orchidaceae
CORTRI	10	Corallorhiza trifida	Pale coralroot	P-FORB	Orchidaceae
CORPAL	8	Coreopsis palmata	Finger coreopsis	P-FORB	Asteraceae
CORTIN	3	Coreopsis tinctoria	Plains coreopsis	A-FORB	Asteraceae
CORHYS	*	CORISPERMUM HYSSOPIFOLIUM	Hyssopleaftickseed	A-FORB	Chenopodiaceae
CORNIT	*	CORISPERMUM NITIDUM	Bugseed	A-FORB	Chenopodiaceae
CORCAN	10	Cornus canadensis	Bunchberry	SHRUB	Cornaceae
CORDRU	5	Cornus drummondii	Roughleaf dogwood	SHRUB	Cornaceae
CORFOE	6	Cornus foemina	Gray dogwood	SHRUB	Comaceae
CORSTO	5 *	Cornus stolonifera	Redosier	SHRUB	Cornaceae
CORVAR		CORONILLA VARIA	Crown vetch	P-FORB	Fabaceae
CORAUA	4	Conydalis aurea subsp. aurea	Golden corydalis	A-FORB	Fumariaceae
CORAUO	4	Conydalis aurea subsp. occidentalis	Golden corydalis	A-FORB	Fumariaceae
CORMIC	2	Corydalis micrantha subsp. micrantha	Slender fumewort	A-FORB	Fumariaceae
CORAME	9	Corylus americana	Hazelnut Beaked hazelnut	SHRUB SHRUB	Betulaceae Betulaceae
CORCOR	8	Corylus cornuta	Missouri foxtail cactus	P-FORB	Cactaceae
CORMIS	10	Coryphantha missouriensis Coryphantha vivipara	Pincushion cactus	P-FORB	Cactaceae
CORVIV	10	,,		TREE	Rosaceae
CRAMOL	3	Crataegus mollis Crataegus rotundifolia	Downy hawthorn Northern hawthorn	SHRUB	Rosaceae
CRAROT CRASUC	6 5		Succelent hawthorn	TREE	Rosaceae
CRECAP	5 *	Crataegus succulenta var. occidentalis CREPIS CAPILLARIS	Smooth hawksbeard	A-FORB	Asteraceae
CREOCC	8	Crepis occidentalis	Largeflower hawksbeard	P-FORB	Asteraceae
CRERUN	8		Hawksbeard	P-FORB	Asteraceae
CRETEC	*	Crepis runcinata CREPIS TECTORUM	Narrowleaf hawksbeard	A-FORB	Asteraceae
CROSAG	4		Rattlebox	A-FORB	Fabaceae
CROTEX	4	Crotalaria sagittalis Croton texensis	Texas croton	A-FORB	Euphorbiaceae
CRYCAN	8	Cryptantha cana	Mountain cryptantha	P-FORB	Boraginaceae
CRYCEL	8	Cryptantha celosioides	Buttecandle	B-FORB	Boraginaceae
CRYFEN	4	Cryptantha fendleri	Sanddune cryptantha	A-FORB	Boraginaceae
CRYJAM	6	Cryptantha jamesii	James' cryptantha	P-FORB	Boraginaceae
OHIOAW	U	огурганина јаттеон	σαιπος στγριαπατα	LOND	Doraginaceae

Cronym	C	Scientific Name	Common Name	Physiognomy	Family
RYTOR	6	Cryptantha torreyana	Torrey's cryptantha	A-FORB	Boraginaceae
RYCAN	7	Cryptotaenia canadensis	Honewort	P-FORB	Apiaceae
USCEP	6	Cuscuta cephalanthi	Buttonbush dodder	A-FORB	Cuscutaceae
USCOR	10	Cuscuta coryli	Hazel dodder	A-FORB	Cuscutaceae
USCUR	5	Cuscuta curta	Bigfruit dodder	A-FORB	Cuscutaceae
USCUS	5	Cuscuta cuspidata	Cusp dodder	A-FORB	Cuscutaceae
USEPI	*	CUSCUTA EPITHYMUM	Clover dodder	A-FORB	Cuscutaceae
USGLO	7	Cuscuta glomerata	Cluster dodder	A-FORB	Cuscutaceae
USGRO	4	Cuscuta gronovii	Gronovius' dodder	A-FORB	Cuscutaceae
		Cuscuta indecora	Large alfalfa dodder	A-FORB	Cuscutaceae
USIND	0		Field dodder	A-FORB	Cuscutaceae
USPEN	5	Cuscuta pentagona	Smartweed dodder	A-FORB	Cuscutaceae
USPOL	8	Cuscuta polygonorum	Fringed dodder	A-FORB	Cuscutaceae
USSUA		CUSCUTA SUAVEOLENS		A-FORB	Chenopodiaceae
YCATR	1	Cycloloma atriplicifolium	Winged pigweed	A-FORB	Scrophulariacea
YMMUR	*	CYMBALARIA MURALIS	Kenilworth ivy		
YMACA	8	Cymopterus acaulis	Wild parsley	P-FORB	Apiaceae
NOMMY		Cymopterus montanus	Mountain springparsley	P-FORB	Apiaceae
YNBOR	3	Cynoglossum boreale	Northern wild comfrey	P-FORB	Boraginaceae
YNOFF	*	CYNOGLOSSUM OFFICINALE	Hound's tongue	B-FORB	Boraginaceae
YPACU	2	Cyperus acuminatus	Tapeleafflatsedge	A-SEDGE	Cyperaceae
YPARI	2	Cyperus aristatus	Awned cypress	A-SEDGE	Cyperaceae
YPDIA	4	Cyperus diandrus	Low flatsedge	A-SEDGE	Cyperaceae
YPENG	4	Cyperus engelmannii	Fragrant flatsedge	A-SEDGE	Cyperaceae
YPERY	2	Cyperus erythrorhizos	Redrooted cyperus	A-SEDGE	Cyperaceae
YPESC	Õ	Cyperus esculentus	Yellownutsedge	P-SEDGE	Cyperaceae
YPLUP	10	Cyperus lupulinus	Houghton flatsedge	P-SEDGE	Cyperaceae
YPODO	2	Cyperus odoratus	Fragrantflatsedge	A-SEDGE	Cyperaceae
YPRIV	3	Cyperus ouoratus Cyperus rivularis	Brookflatsedge	A-SEDGE	Cyperaceae
	5	Cyperus rivularis Cyperus schweinitzii	Schweinitz flatsedge	P-SEDGE	Cyperaceae
YPSCH			False nutgrass	P-SEDGE	Cyperaceae
YPSTR	3	Cyperus strigosus		P-FORB	Orchidaceae
CYPCPA	10	Cypripedium calceolus var. parviflorum	Yellow lady's-slipper		Orchidaceae
CYPCPL	10	Cypripedium calceolusvar. planipetalum	Yellow lady's-slipper	P-FORB	
CYPCPU	10	Cypripedium calceolusvar. pubsecens	Yellow lady's-slipper	P-FORB	Orchidaceae
CYPCAN	10	Cypripedium candidum	Small white lady's-slipper	P-FORB	Orchidaceae
CYPREG	10	Cypripedium reginae	Showy lady's-slipper	P-FORB	Orchidaceae
YSBUL	10	Cystopteris bulbifera	Bulbet bladder fern	FERN	Polypodiaceae
CYSFRA	8	Cystopteris fragilis	Fragile fern	FERN	Polypodiaceae
ACGLO	*	DACTYLIS GLOMERATA	Orchard grass	P-GRASS	Poaceae
ALAUR	8	Dalea aurea	Golden prairieclover	P-FORB	Fabaceae
ALCAC	8	Dalea candidavar. candida	White prairieclover	P-FORB	Fabaceae
ALCAO	8	Dalea candidavar. oligophylla	White prairieclover	P-FORB	Fabaceae
ALCYL	10	Dalea cylindriceps	Massive spike prairieclover	P-FORB	Fabaceae
DALENN	7	Dalea enneandra	Nineanther prairieclover	P-FORB	Fabaceae
ALLEP	2	Dalea leporina	Foxtail dalea	A-FORB	Fabaceae
ALPUR	8	Dalea purpurea var. purpurea	Purple prairie clover	P-FORB	Fabaceae
ALVIL	8	Dalea villosa	Silky prairie clover	P-FORB	Fabaceae
ANSPI	6	Danthonia spicata	Poverty oatgrass	P-GRASS	Poaceae
DATSTR	*	DATURA STRAMONIUM	Jimson weed	A-FORB	Solanaceae
	*		Wild carrot	B-FORB	Apiaceae
AUCAR	*	DAUCUS CAROTA DEI BUINIE IM A LACIS	Rocketlarkspur	P-FORB	Ranunculaceae
DELAJA		DELPHINIUM AJACIS		P-FORB	Ranunculaceae
ELBIC	7	Delphinium bicolor	Little larkspur	P-FORB	Ranunculaceae
ELVIR	8	Delphinium virescens	Prairie larkspur		Poaceae
ESCES	9	Deschampsia cespitosa	Tufted hairgrass	P-GRASS	
ESPIN	1	Descurainia pinnatavar. brachycarpa	Tansymustard	A-FORB	Brassicaceae
ESRIC	3	Descurainia richardsonii	Mountain tanseymustard	B-FORB	Brassicaceae
DESSOP	*	DESCURAINIA SOPHIA	Flixweed	A-FORB	Brassicaceae
DESILL	5	Desmanthus illinoensis	False sensitive plant	P-FORB	Mimosaceae
ESCAN	6	Desmodium canadense	Canadatickclover	P-FORB	Fabaceae
DESGLU	4	Desmodium glutinosum	Largeflowertickclover	P-FORB	Fabaceae
	*	DIANTHUS ARMERIA	Deptford pink	A-FORB	Caryophyllacea
JIAARIVI					
DIAARM DIAAME	10	Diarrhena americanavar, obovata	American beakgrain	P-GRASS	Poaceae

Acronym	ı C	Scientific Name	Common Name	Physiognomy	Family
DICACA	3	Dichanthelium acuminatum var. acuminatum	Tapered rosette	P-GRASS	Poaceae
DICACI	3	Dichanthelium acuminatum var. implicatum	Western panicgrass	P-GRASS	Poaceae
DICACV	8	Dichanthelium acuminatum var. villosum	Whitehair rosette grass	P-GRASS	Poaceae
DICLEI	8	Dichanthelium leibergii	Leiberg's dichanthelium	P-GRASS	Poaceae
DICLIN	8	Dichanthelium linearifolium	Slimleafpanicgrass	P-GRASS	Poaceae
DICOLI	6	Dichanthelium oligosanthesvar. scribnerianum	Scribner rosette grass	P-GRASS	Poaceae
DICWIL	8	Dichanthelium wilcoxianum	Fall rosette grass	P-GRASS	Poaceae
DIELON	10	Diervilla lonicera	Bushhoneysuckle	SHRUB	Caprifoliaceae
DIGISC	*	DIGITARIA ISCHAEMUM	Smooth crabgrass	A-GRASS	Poaceae
DIGSAN	*	DIGITARIA SANGUINALIS	Hairy crabgrass	A-GRASS	Poaceae
DIPMUR	*	DIPLOTAXIS MURALIS	Sand rocket	P-FORB	Brassicaceae
DISTRA	10	Disporum trachycarpum	Fairybells	P-FORB	Liliaceae
DISSPI	2	Distichlis spicata var. stricta	Inland saltgrass	P-GRASS	Poaceae
DODPUL	7	Dodecatheon pulchellum	Shooting star	P-FORB	Primulaceae
DRANEM	1	Draba nemorosa	Yellow whitlowort	A-FORB	Brassicaceae
DRAREP	1	Draba reptans	White whitlowort	A-FORB	Brassicaceae
DRAPAR	2	Dracocephalum parviflorum	American dragonhead	A-FORB	Lamiaceae
DRATHY	*	DRACOCEPHALUM THYMIFLORUM	Thymeleaf dragonhead	A-FORB	Lamiaceae
DROROT	10	Drosera rotundifolia	Roundleafsundew	P-FORB	Droseraceae
DRYCRI	10	Dryopteris cristata	Crested shield fern	FERN	Polypodiaceae
DRYFIL	10	Dryopteris filix-mas	Male fern	FERN	Polypodiaceae
DRYSPI	10	Dryopteris spinulosa	Spinulose wood fern	FERN	Polypodiaceae
DULARU	10	Dulichium arundinaceum	Pond sedge	P-SEDGE	Cyperaceae
DYSPAP	0	Dyssodia papposa	Fetid marigold	A-FORB	Asteraceae
<b>ECHANG</b>	7	Echinacea angustifolia	Purple coneflower	P-FORB	Asteraceae
<b>ECHCRU</b>	*	ECHINOCHLOA CRUSGALLI	Barnyard grass	A-GRASS	Poaceae
<b>ECHMUR</b>	0	Echinochloa muricata var. microstachya	Cockspurgrass	A-GRASS	Poaceae
<b>ECHLOB</b>	3	Echinocystis lobata	Wild cucumber	H-VINE	Cucurbitaceae
<b>ECHROS</b>	3	Echinodorus rostratus	Burhead	A-FORB	Alismataceae
<b>ECHVUL</b>	*	ECHIUM VULGARE	Blueweed	B-FORB	Boraginaceae
ELAANG	*	ELAEAGNUS ANGUSTIFOLIA	Russian olive	SHRUB	Elaeagnaceae
ELACOM	5	Elaeagnus commutata	Silverberry	SHRUB	Elaeagnaceae
ELATRI	0	Elatine triandra	Waterwort	A-FORB	Elatinaceae
ELEACI	3	Eleocharis acicularis	Needle spikerush	P-SEDGE	Cyperaceae
ELECOM	8	Eleocharis compressa	Flatstem spikerush	P-SEDGE	Cyperaceae
ELEERY	2	Eleocharis erythropoda	Bald spikerush	P-SEDGE	Cyperaceae
ELEMAC	4	Eleocharis macrostachya	Common spikerush	P-SEDGE	Cyperaceae
ELEOBT	2	Eleocharis obtusavar. ovata	Bluntspikerush	A-SEDGE	Cyperaceae
ELEPAR	10	Eleocharis parvula var. anachaeta	Dwarf spikerush	P-SEDGE	Cyperaceae
ELEPAU	10	Eleocharis pauciflora	Fewflower spikerush	P-SEDGE	Cyperaceae
ELEROS	10	Eleocharis rostellata	Beaked spikerush	P-SEDGE	Cyperaceae
ELESMA	4	Eleocharis smallii	Small's spikerush	P-SEDGE	Cyperaceae
ELEWOL	10	Eleocharis wolfii	Wolf's spikerush	P-SEDGE	Cyperaceae
ELEXYR	4	Eleocharis xyridiformis	Common spikerush	P-SEDGE A-GRASS	Cyperaceae Poaceae
ELEIND		ELEUSINE INDICA	Goosegrass	A-GRASS A-FORB	Hydrophyllaceae
ELLNYC	0	Ellisia nyctelea	Waterpod Canadian waterweed	P-FORB	Hydrocharitaceae
ELOCAN	8	Elodea canadensis	Twoleaf waterweed	P-FORB	Hydrocharitaceae
ELOLON	10	Elodea longivaginata Elodea nuttallii	Slender waterweed	P-FORB	Hydrocharitaceae
ELVCAN	10		Canada wildrye	P-GRASS	Poaceae
ELYCAN	3	Elymus canadensis	Diverseglume wildrye	P-GRASS	Poaceae
ELYDIV	8	Elymus diversiglumis	Blue wildrye	P-GRASS	Poaceae
ELYGLA	10	Elymus glaucus Elymus innovatus	Fuzzyspike wildrye	P-GRASS	Poaceae
ELYINN	8	ELYMUS JUNCEUS	Russian wildrye	P-GRASS	Poaceae
ELYJUN		Elymus villosus	Hairy wildrye	P-GRASS	Poaceae
ELYVIL	4		Virginia wildrye	P-GRASS	Poaceae
ELYVIR	4	Elymus virginicus Enilohium angustifolium suban, circumvagum	Fireweed	P-FORB	Onagraceae
EPIANG	5 3	Epilobium angustifolium subsp. circumvagum Epilobium ciliatum subsp. ciliatum	Fringed willowherb	P-FORB	Onagraceae
EPICIC EPICIG		Epilobium ciliatum subsp. ciliatum Epilobium ciliatum subsp. glandulosum	Fringed willowherb	P-FORB	Onagraceae
CER JUST	3		Purpleleaf willowherb	P-FORB	Onagraceae
	O	Enilohium coloratum			
EPICOL EPILEP	8 6	Epilobium coloratum Epilobium leptophyllum	Narrowleafwillowherb	P-FORB	Onagraceae

Acronym	C	Scientific Name	Common Name	Physiognomy	Family
EQUARV	4	Equisetum arvense	Field horsetail	FERN	Equisetaceae
EQUFLU	8	Equisetum fluviatile	Water horsetail	FERN	Equisetaceae
EQUHYE	3	Equisetum hyemale	Common scouring rush	FERN	Equisetaceae
EQULAE	3	Equisetum laevigatum	Smooth scouring rush	FERN	Equisetaceae
EQUPAL	8	Equisetum palustre	Marsh horsetail	FERN	Equisetaceae
EQUPRA	10	Equisetum pratense	Meadow horsetail	FERN	Equisetaceae
EQUSYL	10	Equisetum sylvaticum	Wood horsetail	FERN	Equisetaceae
EQUVAR	10	Equisetum variegatum	Variegated scouring rush	FERN	Equisetaceae
EQUFER	3	Equisetum x ferrissii	Intermediate scouring rush	FERN	Equisetaceae
ERACIL	*	ERAGROSTIS CILIANENSIS	Stinkgrass	A-GRASS	Poaceae
ERAHYP	2	Eragrostis hypnoides	Teallovegrass	A-GRASS	Poaceae
ERAPEC	0	Eragrostis pectinacea	Carolina lovegrass	A-GRASS	Poaceae
			India lovegrass	A-GRASS	Poaceae
ERAPIL	0	Eragrostis pilosavar. perplexa	Creeping lovegrass	A-GRASS	Poaceae
ERAREP	2	Eragrostis reptans		P-GRASS	Poaceae
ERASPE	3	Eragrostis spectabilis	Purple lovegrass	P-GRASS	Poaceae
ERATRI	8	Eragrostis trichodes	Sand lovegrass	A-FORB	
EREHIE	*	ERECHTITES HIERACIFOLIA	Fireweed		Asteraceae
ERIANN	3	Erigeron annuus	Annual fleabane	A-FORB	Asteraceae
ERICAE	10	Erigeron caespitosus	Tufted fleabane	P-FORB	Asteraceae
ERICAN	7	Erigeron canus .	Hoary fleabane	P-FORB	Asteraceae
ERICOM	10	Erigeron compositus	Cutleafdaisy	P-FORB	Asteraceae
ERIDIV	10	Erigeron divergens	Spreading fleabane	B-FORB	Asteraceae
ERIGLA	7	Erigeron glabellus subsp. pubescens	Streamside fleabane	B-FORB	Asteraceae
ERILON	10	Erigeron lonchophyllus	Shortray fleabane	B-FORB	Asteraceae
ERIPHI	2	Erigeron philadelphicus	Philadelphia fleabane	B-FORB	Asteraceae
ERIPUM	8	Erigeron pumilus	Lowfleabane	P-FORB	Asteraceae
ERIRAD	10	Erigeron radicatus	Taprootfleabane	P-FORB	Asteraceae
ERISTR	3	Erigeron strigosus	Daisy fleabane	A-FORB	Asteraceae
ERISUB	7	Erigeron subtrinervis	Threenerve fleabane	P-FORB	Asteraceae
ERIOAN	6	Eriogonum annuum	Annual buckwheat	A-FORB	Polygonaceae
ERICER	9	Eriogonum cernuum	Nodding buckwheat	A-FORB	Polygonaceae
ERIEFF	10	Eriogonum effusum var. effusum	Spreading buckwheat	P-FORB	Polygonaceae
ERIFLA	7	Eriogonum flavum	Yellow buckwheat	P-FORB	Polygonaceae
ERIGOR	6	Eriogonum gordonii	Gordon's buckwheat	A-FORB	Polygonaceae
ERIPAU	5	Eriogonum pauciflorum var. pauciflorum	Fewflower buckwheat	P-FORB	Polygonaceae
ERIVIS	8	Eriogonum visheri	Visher's buckwheat	A-FORB	Polygonaceae
ERICHA	10	Eriophorum chamissonis	Chamisso cottongrass	P-SEDGE	Cyperaceae
ERIGRA	10	Eriophorum gracile	Slender cottongrass	P-SEDGE	Cyperaceae
	8		Narrowleaf cottongrass	P-SEDGE	Cyperaceae
ERIPOL		Eriophorum polystachion	Tall cottongrass	P-SEDGE	Cyperaceae
ERIVIR	10	Eriophorum viridicarinatum	Rocketsalad	A-FORB	Brassicaceae
ERUSAT	*	ERUCA SATIVA ERUCASTRUM GALLICUM		A-FORB	Brassicaceae
ERUGAL			Dog mustard Western wallflower	B-FORB	Brassicaceae
ERYASP	3	Erysimum asperum		A-FORB	Brassicaceae
ERYCHE		ERYSIMUM CHEIRANTHOIDES	Wormseed wallflower		
ERYINC	7	Erysimum inconspicuum	Smallflower wallflower	P-FORB	Brassicaceae
ERYREP	*	ERYSIMUM REPANDUM	Bushywallflower	A-FORB	Brassicaceae
EUOATR	9	Euonymus atropurpureus	Wahoo	SHRUB	Celastraceae
EUPMAC	9	Eupatorium maculatum var. bruneri	Spotted joe-pye weed	P-FORB	Asteraceae
EUPPER	9	Eupatorium perfoliatum	Boneset	P-FORB	Asteraceae
EUPRUG	6	Eupatorium rugosum	White snakeroot	P-FORB	Asteraceae
EUPCOR	2	Euphorbia corollata	Flowering spurge	P-FORB	Euphorbiaceae
EUPCYA	2	Euphorbia cyathophora	Fire-on-the-mountain	A-FORB	Euphorbiaceae
EUPCYP	*	EUPHORBIA CYPARISSIAS	Cypress spurge	P-FORB	Euphorbiaceae
Eupden	2	Euphorbia dentata	Toothed spurge	A-FORB	Euphorbiaceae
EUPESU	*	EÚPHORBIA ESULA	Leafy spurge	P-FORB	Euphorbiaceae
EUPFEN	8	Euphorbia fendleri	Fendler's euphorbia	P-FORB	Euphorbiaceae
<b>EUPGEY</b>	1	Euphorbia geyeri	Geyer's spurge	A-FORB	Euphorbiaceae
EUPGLY	0	Euphorbia glyptosperma	Ridgeseed spurge	A-FORB	Euphorbiaceae
EUPHEX	2	Euphorbia hexagona	Sixangle spurge	A-FORB	Euphorbiaceae
EUPHMA	0	Euphorbia maculata	Spotted spurge	A-FORB	Euphorbiaceae
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<b>EUPMAR</b>	2	Euphorbia marginata	Snow-on-the-mountain	A-FORB	Euphorbiaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
EUPNUT	*	EUPHORBIA NUTANS	Eyebane	A-FORB	Euphorbiaceae
<b>EUPPRO</b>	1	Euphorbia prostrata	Groundfig spurge	A-FORB	Euphorbiaceae
<b>EUPROB</b>	9	Euphorbia robusta	Horned spurge	P-FORB	Euphorbiaceae
EUPSEP	0	Euphorbia serpens	Roundleafspurge	A-FORB	Euphorbiaceae
EUPSEF	0	Euphorbia serpyllifolia	Thymeleafspurge	A-FORB	Euphorbiaceae
EUPSPA	5	Euphorbia spathulata	Prairie spurge	A-FORB	Euphorbiaceae
EUPSTI	2	Euphorbia stictospora	Matspurge	A-FORB	Euphorbiaceae
EUPPSE	*	EUPHORBIA X PSEUDOVIRGATA	Hybrid leafy spurge	P-FORB	Euphorbiaceae
EUSGRA	5	Eustoma grandiflorum	Showy prairie gentian	A-FORB	Gentianaceae
EUTGRG	6	Euthamia graminifolia var. graminifolia	Flat-top goldentop	P-FORB	Asteraceae
EUTGRM	6	Euthamia graminifolia var. major	Flat-top goldentop	P-FORB	Asteraceae
EUTGYM	5	Euthamia gymnospermoides	Viscid euthamia	P-FORB	Asteraceae
EVAPR0	4	Evax prolifera	Rabbit-tobacco	A-FORB	Asteraceae
FAGESC	*	FAGOPYRUM ESCULENTUM	Buckwheat	A-FORB	Polygonaceae
FESARU	*	FESTUCA ARUNDINACEA	Tallfescue	P-GRASS	Poaceae
	10	Festuca obtusa	Nodding fescue	P-GRASS	Poaceae
FESOCT	0	Festuca octoflora	Sixweeksfescue	A-GRASS	Poaceae
FESOVI	8	Festuca ovina var. rydbergii	Sheep's fescue	P-GRASS	Poaceae
FESPRA	*	FESTUCA PRATENSIS	Meadowfescue	P-GRASS	Poaceae
FESRUB	5	Festuca rubra	Redfescue	P-GRASS	Poaceae
FESSCA	8	Festuca scabrella	Roughfescue	P-GRASS	Poaceae
FIMAUT	5	Fimbristylis autumnalis	Autumn sedge	A-SEDGE	Cyperaceae
	10	Fimbristylis puberula	Hairy fimbry	P-SEDGE	Cyperaceae
FRAVES	6	Fragaria vescavar, americana	Woodland strawberry	P-FORB	Rosaceae
FRAVIR	4	Fragaria virginiana	Wild strawberry	P-FORB	Rosaceae
	10	Fraxinus nigra	Blackash	TREE TREE	Oleaceae Oleaceae
FRAPEN	5	Fraxinus pennsylvanica	Green ash	P-FORB	Liliaceae
	10	Fritillaria atropurpurea	Leopard lily Yellow bell	P-FORB	Liliaceae
	10	Fritillaria pudica Froelichia floridana	Field snakecotton	A-FORB	Amaranthaceae
FROFLO	3		Slendersnakecotton	A-FORB	Amaranthaceae
Frogra Fumvai	ა *	Froelichia gracilis FUMARIA VAILLENTII	Common fumitory	A-FORB	Fumariaceae
GAIARI	5	Gaillardia aristata	Blanket flower	P-FORB	Asteraceae
GALBIF	3 *	GALEOPSIS BIFIDA	Common hempnettle	A-FORB	Lamiaceae
GALPAR	*	GALINSOGA PARVIFLORA	Smooth Peruvian daisy	A-FORB	Asteraceae
GALQUA	*	GALINSOGA QUADRIRADIATA	Fringed quickweed	A-FORB	Asteraceae
GALAPA	0	Galium aparine	Catchweed bedstraw	A-FORB	Rubiaceae
GALBOR	4	Galium boreale	Northern bedstraw	P-FORB	Rubiaceae
	10	Galium labradoricum	Labrador bedstraw	P-FORB	Rubiaceae
	10	Galium obtusum	Bluntleaf bedstraw	P-FORB	Rubiaceae
GALTRU	8	Galium trifidum	Small bedstraw	P-FORB	Rubiaceae
GALTRO	7	Galium triflorum	Sweetscent bedstraw	P-FORB	Rubiaceae
GALVER	*	GALIUM VERUM	Yellow bedstraw	P-FORB	Rubiaceae
GAUCOC	4	Gaura coccinea	Scarletgaura	P-FORB	Onagraceae
GAUPAR	1	Gaura parviflora	Velvety gaura	A-FORB	Onagraceae
	10	Gentiana affinis	Northern gentian	P-FORB	Gentianaceae
GENAND	10	Gentiana andrewsii	Closed gentian	P-FORB	Gentianaceae
<b>GENPUB</b>	10	Gentiana puberulenta	Downy gentian	P-FORB	Gentianaceae
GENAMA	7	Gentianella amarella subsp. acuta	Autumn dwarf gentian	A-FORB	Gentianaceae
	10	Gentianopsis crinita	Fringed gentian	A-FORB	Gentianaceae
	10	Gentianopsis procera	Lesser fringed gentian	A-FORB	Gentianaceae
GERBIC	3	Geranium bicknellii	Bicknell's cranesbill	A-FORB	Geraniaceae
GERCAR	5	Geranium carolinianum	Carolina cranesbill	A-FORB	Geraniaceae
	10	Geranium maculatum	Wild cranesbill	P-FORB	Geraniaceae
GERPUS	*	GERANIUM PUSSILLUM	Small cranesbill	A-FORB	Geraniaceae
GEUALE	4	Geum aleppicum	Yellow avens	P-FORB	Rosaceae
	4	Geum canadense	White avens	P-FORB	Rosaceae
GEUCAN		Geum macrophyllum	Largeleafavens	P-FORB	Rosaceae
<b>GEUMAC</b>	8				
GEUMAC GEURIV	10	Geum rivale .	Purple avens	P-FORB	Rosaceae
GEUMAC GEURIV GEUTRI	10 8	Geum rivale Geum triflorum	Torchflower	P-FORB	Rosaceae
GEUMAC GEURIV	10	Geum rivale .			

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
GLETRI	6	Gleditsia triacanthos	Honey locust	TREE	Caesalpiniaceae
<b>GLYBOR</b>	8	Glyceria borealis	Northern mannagrass	P-GRASS	Poaceae
GLYGRA	4	Glyceria grandis	Tallmannagrass	P-GRASS	Poaceae
GLYSTR	6	Glyceria striata	Fowl mannagrass	P-GRASS	Poaceae
GLYLEP	2	Glycyrrhiza lepidota	Wild licorice	P-FORB	Fabaceae
GNAPAL	3	Gnaphalium palustre	Diffuse cudweed	A-FORB	Asteraceae
GRANEG	0	Gratiola neglecta	Hedge hyssop	A-FORB	Scrophulariaceae
GRISQQ	1	Grindelia squarrosa var. quasiperennis	Curly-top gumweed	B-FORB	Asteraceae
GRISQS	1	Grindelia squarrosa var. squarrosa	Curly-top gumweed	B-FORB	Asteraceae
GUTSAR	6	Gutierrezia sarothrae	Snakeweed	SHRUB	Asteraceae
GYMDRY	10	Gymnocarpium dryopteris	Oakfern	FERN	Polypodiaceae
GYMDI0	8	Gymnocladus dioicus	Kentucky coffeetree	TREE	Caesalpiniaceae
GYPPAN	*	GÝPSOPHILA PANICULATA	Baby's breath	P-FORB	Caryophyllaceae
HABCLA	10	Habenaria clavellata	Green woodland orchid	P-FORB	Orchidaceae
HABHYP	9	Habenaria hyperborea	Northern green orchid	P-FORB	Orchidaceae
HABLEU	10	Habenaria leucophaea	Prairie fringed orchid	P-FORB	Orchidaceae
HABVIR	10	Habenaria viridis var. bracteata	Longbractorchid	P-FORB	Orchidaceae
HACDEF	0	Hackelia deflexa	Nodding stickseed	B-FORB	Boraginaceae
HACFLO	8	Hackelia floribunda	Manyflower stickseed	B-FORB	Boraginaceae
HACVIR	0	Hackelia virginiana	Virginia stickseed	B-FORB	Boraginaceae
HALDEF	8	Halenia deflexa	Spurred gentian	A-FORB	Gentianaceae
HAPARM	7	Haplopappus armerioides	Thrift mock goldenweed	SHRUB	Asteraceae
HAPLAN	9	Haplopappus lanceolatus	Lanceleafgoldenweed	P-FORB	Asteraceae
HAPMUL	4	Haplopappus multicaulis	Branched false goldenweed	P-FORB	Asteraceae
HAPSPI	7	Haplopappus spinulosus	Cutleafironplant	P-FORB	Asteraceae
HEDDRU	4	Hedeoma drummondii	Drummond false pennyroyal	P-FORB	Lamiaceae
HEDHIS	2	Hedeoma hispidum	Rough false pennyroyal	A-FORB	Lamiaceae
HEDCRA	*	HEDYOTIS CRASSIFOLIA	Small bluets	A-FORB	Rubiaceae
HEDLON		Hedyotis longifolia	Sienderleaf bluet	P-FORB	Rubiaceae
HEDBOR	8 7	Hedysarum boreale	Sweetbroom	P-FORB	Fabaceae
	4	Helenium autumnale	Sneezeweed	P-FORB	Asteraceae
HELAUT			Frostweed	P-FORB	Cistaceae
HELBIC	10	Helianthemum bicknellii	Common sunflower	A-FORB	Asteraceae
HELANN	0	Helianthus annuus	Sawtooth sunflower	P-FORB	Asteraceae
HELGRO	7	Helianthus grosseserratus	Maximilian sunflower	P-FORB	Asteraceae
HELMAX	5	Helianthus maximiliani	Nuttall's sunflower	P-FORB	Asteraceae
HELNUN	8	Helianthus nuttallii subsp. nuttallii		P-FORB	Asteraceae
HELNUR	8	Helianthus nuttallii subsp. rydbergii	Nuttall's sunflower Plains sunflower	A-FORB	Asteraceae
HELPET	0	Helianthus petiolaris	Stiff sunflower	P-FORB	Asteraceae
HELRIG	8	Helianthus rigidus subsp. subrhomboideus		P-FORB	
HELTUB	2	Helianthus tuberosus	Jerusalem artichoke		Asteraceae
HELH00	9	Helictotrichon hookeri	Spike oat	P-GRASS	Poaceae
HELHEL	5	Heliopsis helianthoides var. scabra	False sunflower	P-FORB	Asteraceae
HELCUR	8	Heliotropium curassavicum	Seaside heliotrope	A-FORB	Boraginaceae
HEMFUL	*	HEMEROCALLIS FULVA	Daylily	P-FORB	Liliaceae
HEMDRU	7	Hemicarpha drummondii	Drummond hemicarpha	A-SEDGE	Cyperaceae
HEMMIC	7	Hemicarpha micrantha	Common hemicarpha	A-SEDGE	Cyperaceae
HERSPH	3	Heracleum sphondylium subsp. montanum	Cowparsnip	P-FORB	Apiaceae
HESMAT	*	HESPERIS MATRONALIS	Dame's rocket	B-FORB	Brassicaceae
HETLIM	9	Heteranthera limosa	Mud plantain	P-FORB	Pontederiaceae
HEURIC	8	Heuchera richardsonii	Alumroot	P-FORB	Saxifragaceae
HIBTRI	*	HIBISCUSTRIONUM	Flower-of-an-hour	A-FORB	Malvaceae
HIECAN	6	Hieracium canadense	Canadian hawkweed	P-FORB	Asteraceae
HIEUMB	6	Hieracium umbellatum	Narrowleaf hawkweed	P-FORB	Asteraceae
HIEODO	10	Hierochloe odorata	Sweetgrass	P-GRASS	Poaceae
HIPVUL	5	Hippuris vulgaris	Mare's tail	P-FORB	Hippuridaceae
HORJUB	0	Hordeum jubatum	Foxtail barley	P-GRASS	Poaceae
HORPUS	0	Hordeum pusillum	Little barley	A-GRASS	Poaceae
HUDTOM	10	Hudsonia tomentosa	Beach heather	SHRUB	Cistaceae
HUMLUP	3	Humulus lupulus	Common hops	H-VINE	Cannabaceae
HYDVIR	8	Hydrophyllum virginianum	Waterleaf	P-FORB	Hydrophyllaceae
HYMFIL	8	Hymenopappus filifolius var. polycephalus	Manyhead hymenopappus	P-FORB	Asteraceae
		Hymenopappus tenuifolius	Slimleaf hymenopappus	B-FORB	Asteraceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
HYMACA	6	Hymenoxys acaulis	Stemless hymenoxys	P-FORB	Asteraceae
HYMRIC	8	Hymenoxys richardsonii	Colorado rubber plant	P-FORB	Asteraceae
HYONIG	*	HYOSCYAMUS NIGER	Henbane	A-FORB	Solanaceae
HYPMAJ	10	Hypericum majus	Greater St. John's-wort	P-FORB	Clusiaceae
HYPPER	*	HYPERICUM PERFORATUM	Common St. John's-wort	P-FORB	Clusiaceae
HYPHIR	8	Hypoxis hirsuta	Yellow stargrass	P-FORB	Liliaceae
HYSPAT	8	Hystrix patula	Bottlebrush grass	P-GRASS	Poaceae
MPCAP	4	Impatiens capensis	Spotted touch-me-not	A-FORB	Balsaminaceae
MPPAL	4	Impatiens pallida	Pale touch-me-not	A-FORB	Balsaminaceae
POLEP	9	Ipomoea leptophylla	Bush morning-glory	P-FORB	Convolvulaceae
POPUR	*	IPOMOEA PURPUREA	Common morning-glory	A-FORB	Convolvulaceae
POCON	8	Ipomopsis congesta	Ballhead ipomopsis	P-FORB	Polemoniaceae
Pospi	8	Ipomopsis spicata	Spiked ipomopsis	P-FORB	Polemoniaceae
RIMIS	6	Iris missouriensis .	Western blueflag	P-FORB	Iridaceae
SOMEL	10	lsoetes melanopoda	Midland quillwort	FERN	Isoetaceae
Vaann	*	IVA ANNUA	Marsh elder	A-FORB	Asteraceae
Vaaxi	4	Iva axillaris	Poverty weed	P-FORB	Asteraceae
Vaxan	0	lva xanthifolia	Marsh elder	A-FORB	Asteraceae
UGNIG	8	Juglans nigra	Blackwalnut	TREE	Juglandaceae
IUNALP	7	Juncus alpinus	Richardson's rush	P-FORB	Juncaceae
JUNART	7	Juncus articulatus	Jointleaf rush	P-FORB	Juncaceae
JUNBAL	5	Juncus balticus	Baltic rush	P-FORB	Juncaceae
JUNBUF	1	Juncus bufonius	Toadrush	A-FORB	Juncaceae
JUNCAN	10	Juncus canadensis	Canadianrush	P-FORB	Juncaceae
JUNDUD	4	Juncus dudleyi	Dudley rush	P-FORB	Juncaceae
JUNGER	*	JUNCUS GERARDII	Blackgrass	P-FORB	Juncaceae
JUNINT	5	Juncus interior	Inland rush	P-FORB	Juncaceae
JUNLON	10	Juncus longistylis	Longstyle rush	P-FORB	Juncaceae
JUNMAR	10	Juncus marginatus	Grassleafrush	P-FORB	Juncaceae
JUNNOD	7	Juncus nodosus	Knotted rush	P-FORB	Juncaceae
JUNTEN	4	Juncustenuis	Path rush	P-FORB	Juncaceae
JUNTOR	2	Juncustorreyi	Torrey's rush	P-FORB	Juncaceae
JUNCOM	5	Juniperus communis	Dwarfjuniper	SHRUB	Cupressaceae
JUNHOR	6	Juniperus horizontalis	Creeping juniper	SHRUB	Cupressaceae
IUNSCO	4	Juniperus scopulorum	Rocky Mountain juniper	TREE	Cupressaceae
JUNVIR	0	Juniperus virginiana	Red cedar	TREE	Cupressaceae
(naarv	*	KNAUTIA ARVENSIS	Bluebuttons	P-FORB	Dipsacacea
(OCSCO	*	KOCHIA SCOPARIA	Kochia	A-FORB	Chenopodiaceae
(OEPYR	7	Koeleria pyramidata	Junegrass	P-GRASS	Poaceae
CUHEUP	5	Kuhnia eupatorioides var. corymbulosa	False boneset	P-FORB	Asteraceae
ACBIE	6	Lactuca biennis	Blue wood lettuce	B-FORB	Asteraceae
ACCAN	6	Lactuca canadensis	Wild lettuce	B-FORB	Asteraceae
ACFL0	4	Lactuca floridana	Florida lettuce	B-FORB	Asteraceae
ACLUD	6	Lactuca ludoviciana	Western wild lettuce	B-FORB	Asteraceae
ACOBL	1	Lactuca oblongifolia	Blue lettuce	P-FORB	Asteraceae
ACSER	*	LACTUCA SERRIOLA	Prickly lettuce	A-FORB	Asteraceae
AMAMP	*	LAMIUM AMPLEXICAULE	Henbit	A-FORB	Lamiaceae
APCAN	5	Laportea canadensis	Woodnettle	P-FORB	Urticaceae
APCEN	3	Lappula cenchrusoides	Great Plains stickseed	A-FORB	Boraginaceae
APECH	*	LAPPULAECHINATA	Blue stickseed	A-FORB	Boraginaceae
APRED	2	Lappula redowskii	Low stickseed	A-FORB	Boraginaceae
APTEX	1	Lappula texana	Cupseed stickseed	A-FORB	Boraginaceae
APCOM	*	LAPSANA COMMUNIS	Nipplewort	A-FORB	Asteraceae
ATOCH	8	Lathyrus ochroleucus	Yellow vetchling	P-FORB	Fabaceae
ATPAL	9	Lathyrus palustris	Marsh vetchling	P-FORB	Fabaceae
ATPOL	7	Lathyrus polymorphus	Hoary vetchling	P-FORB	Fabaceae
ATVEN	8	Lathyrus venosus var. intonsus	Bushyvetchling	P-FORB	Fabaceae
ECSTR	8	Lechea stricta	Pinweed	P-FORB	Cistaceae
EEORY	2	Leersia oryzoides	Rice cutgrass	P-GRASS	Poaceae
EEVIR	5	Leersia virginica	Whitegrass	P-GRASS	Poaceae
EMGIB	2	Lemna gibba	Swollen duckweed	P-FORB	Lemnaceae
EMMIN	9	Lemna minor	Common duckweed	P-FORB	Lemnaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
LEMOBS	2	Lemna obscura	Little duckweed	P-FORB	Lemnaceae
LEMTRI	2	Lemna trisulca	Star duckweed	P-FORB	Lemnaceae
LEMTUR	1	Lemna turionifera	Turion duckweed	P-FORB	Lemnaceae
LEOCAR	*	LEONURUS CARDIACA	Motherwort	P-FORB	Lamiaceae
LEPDEN	0	Lepidium densiflorum	Peppergrass	A-FORB	Brassicaceae
LEPPER	*	LEPIDIUM PERFOLIATUM	Clasping peppergrass	A-FORB	Brassicaceae
LEPRAM	0	Lepidium ramosissimum	Bushy peppergrass	B-FORB	Brassicaceae
LEPVIR	0	Lepidium virginicum	Peppergrass	A-FORB	Brassicaceae
LEPFAS	0	Leptochloa fascicularis	Bearded sprangletop	A-GRASS	Poaceae
LESCAP	9	Lespedeza capitata	Roundhead lespedeza	P-FORB	Fabaceae
LESALP	8	Lesquerella alpina	Alpine bladderpod	P-FORB	Brassicaceae
LESARN	6	Lesquerella arenosa var. arenosa	Great Plains bladderpod	A-FORB	Brassicaceae
LESARG	8	Lesquerella arenosa var. argillosa	Great Plains bladderpod	A-FORB	Brassicaceae
LESLUD	6	Lesquerella ludoviciana	Foothill bladderpod	P-FORB	Brassicaceae
LESMON	8	Lesquerella montana	Mountain bladderpod	P-FORB	Brassicaceae
LEUMON	10	Leucocrinum montanum	Mountain lily	P-FORB	Liliaceae
Liaasp	8	Liatris aspera	Tall blazing star	P-FORB	Asteraceae
LIALAN	10	Liatris lancifolia	Lanceleaf blazing star	P-FORB	Asteraceae
LIALIG	10	Liatris ligulistylis	Rocky Mountain blazing star	P-FORB	Asteraceae
LIAPUN	7	Liatris punctata	Dotted blazing star	P-FORB	Asteraceae
LIAPYC	8	Liatris pycnostachya	Prairie blazing star	P-FORB	Asteraceae
LIASQU	8	Liatris squarrosa var. glabrata	Scaly blazing star	P-FORB	Asteraceae
LILCAN	10	Lilium canadense	Turk's cap lily	P-FORB	Liliaceae
LILPHI	8	Lilium philadelphicum	Wild lily	P-FORB	Liliaceae
LIMAQU	2	Limosella aquatica	Mudwort	P-FORB	Scrophulariaceae
LINSEP	10	Linanthus septentrionalis	Northern linanthus	A-FORB	Polemoniaceae
LINCAC	5	Linaria canadensisvar. canadensis	Old-field toadflax	A-FORB	Scrophulariaceae
LINCAT	5	Linaria canadensisvar. texana	Texastoadflax	A-FORB	Scrophulariaceae
LINDAL	*	LINARIA DALMATICA	Toadflax	P-FORB	Scrophulariaceae
LINVUL	*	LINARIA VULGARIS	Butter-and-eggs	P-FORB	Scrophulariaceae
LINDUB	2	Lindernia dubia	False pimpernel	A-FORB	Scrophulariaceae
LINBOR	10	Linnaea borealis	Twinflower	SHRUB	Caprifoliaceae
LINPER	6	Linum perenne var. lewisii	Blue flax	P-FORB	Linaceae
LINRIC	5	Linum rigidum var. compactum	Stiffstem flax	A-FORB	Linaceae
LINRIR	5	Linum rigidum var. rigidum	Stiffstem flax	A-FORB	Linaceae
LINSUL	7	Linum sulcatum	Grooved flax	A-FORB	Linaceae
LINUSI	*	LINUMUSITATISSIMUM	Common flax	A-FORB	Linaceae
LIPLOE	10	Liparis loeselii	Loesel's twayblade	P-FORB	Orchidaceae
LIPCUN	0	Lippia cuneifolia	Wedgeleaffog-fruit	P-FORB	Verbenaceae
LIPLAN	2	Lippia lanceolata	Northern fog-fruit	P-FORB	Verbenaceae
LITARV	*	LITHOSPERMUM ARVENSE	Corn gromwell	A-FORB	Boraginaceae
LITCAN	7	Lithospermum canescens	Hoary puccoon	P-FORB	Boraginaceae
LITCAR	8	Lithospermum caroliniense	Puccoon	P-FORB	Boraginaceae
LITINC	7	Lithospermumincisum	Narrowleafpuccoon	P-FORB	Boraginaceae
LITLAT	10	Lithospermum latifolium	Gromwell	P-FORB	Boraginaceae
LOBKAL	10	Lobelia kalmii	Kalm's lobelia	P-FORB	Campanulaceae
LOBSIP	7	Lobelia siphilitica	Blue cardinal flower	P-FORB	Campanulaceae
LOBSPI	6	Lobelia spicata	Palespike lobelia	P-FORB	Campanulaceae
LOLPEN	*	LOLIUM PERENNE	Perennial ryegrass	P-GRASS	Poaceae
LOLPEM	*	LOLIUM PERSICUM	Asian ryegrass	A-GRASS	Poaceae
LOMFOE	6	Lomatium foeniculaceum var. foeniculaceum	Wild parsley	P-FORB	Apiaceae
LOMMAC	8	Lomatium macrocarpum	Bigseed biscuitroot	P-FORB	Apiaceae
LOMORI	8	Lomatium orientale	Wild parsley	P-FORB	Apiaceae
LONDIO	5	Lonicera dioica	Wild honeysuckle	W-VINE	Caprifoliaceae
LONTAT	*	LONICERATATARICA	Tatarian honeysuckle	SHRUB	Caprifoliaceae
LOTCOR	*	LOTUS CORNICULATUS	Bird's-foottrefoil	P-FORB	Fabaceae
LOTPUR	3	Lotus purshianus	Prairie trefoil	A-FORB	Fabaceae
LUPARA	8	Lupinus argenteus var. argenteus	Silvery lupine	P-FORB	Fabaceae
LUPARP	8	Lupinus argenteus var. parviflorus	Silvery lupine	P-FORB	Fabaceae
LUPPUS	6	Lupinus pusillus	Small lupine	A-FORB	Fabaceae
LUZMUL	7	Luzula multiflora	Common woodrush	P-FORB	Juncaceae
LYCCHA	*	LYCHNIS CHALCEDONICA	Scarletlychnis	P-FORB	Caryophyllaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
LYCHAL	*	LYCIUM HALIMIFOLIUM	Matrimony vine	SHRUB	Solanaceae
LYCARV	*	LYCOPSIS ARVENSIS	Small bugloss	A-FORB	Boraginaceae
LYCAME	4	Lycopus americanus	American bugleweed	P-FORB	Lamiaceae
LYCASP	4	Lycopus asper	Rough bugleweed	P-FORB	Lamiaceae
LYCUNI	8	Lycopus uniflorus	One flower horehound	P-FORB	Lamiaceae
LYGJUN	2	Lygodesmia juncea	Skeletonweed	P-FORB	Asteraceae
			Fringed loosestrife	P-FORB	Primulaceae
YSCIL	6	Lysimachia ciliata	Loosestrife	P-FORB	Primulaceae
LYSHYB	5	Lysimachia hybrida	Whorled loosestrife	P-FORB	Primulaceae
YSQUA	8	Lysimachia quadriflora		P-FORB	Primulaceae
YSTHY	7	Lysimachia thyrsiflora	Tufted loosestrife		
YTALA	9	Lythrum alatum	Winged loosestrife	P-FORB	Lythraceae
YTSAL		LYTHRUM SALICARIA	Purple loosestrife	P-FORB	Lythraceae
MACCAN	8	Machaeranthera canescens	Hoarytanseyaster	A-FORB	Asteraceae
Macgri	8	Machaeranthera grindelioides	Rayless tanseyaster	P-FORB	Asteraceae
MACLIN	8	Machaeranthera linearis	Hoarytanseyaster	A-FORB	Asteraceae
//ACPOM	*	MACLURA POMIFERA	Osage orange	TREE	Moraceae
/IADGLO	1	Madia glomerata	Tarweed	A-FORB	Asteraceae
/IAICAN	8	Maianthemum canadense	Wild lily-of-the-valley	P-FORB	Liliaceae
/ALNEG	*	MALVANEGLECTA	Common mallow	A-FORB	Malvaceae
MALPAR	*	MALVA PARVIFLORA	Small-fruited mallow	A-FORB	Malvaceae
//ALROT	*	MALVA ROTUNDIFOLIA	Common mallow	A-FORB	Malvaceae
MALSYL	*	MALVA SYLVESTRIS	High mallow	B-FORB	Malvaceae
VIALSYL VIALVER	*	MALVASTLVESTRIS	Clustered mallow	A-FORB	Malvaceae
		Marsilea vestita	Western water clover	FERN	Marsileaceae
MARVES	2		False chamomile	A-FORB	Asteraceae
//ATCHA	*	MATRICARIA CHAMOMILLA		A-FORB	Asteraceae
//ATMAR		MATRICARIA MARITIMA	Wild chamomile	A-FORB	Asteraceae
TAMTAN	*	MATRICARIA MATRICARIOIDES	Pineapple weed		
	10	Matteuccia struthiopteris	Ostrich fern	FERN P. FORD	Polypodiaceae
MEDLUP	*	MEDICAGO LUPULINA	Blackmedick	P-FORB	Fabaceae
MEDSAT	*	MEDICAGO SATIVA	Alfalfa	P-FORB	Fabaceae
<b>MELALB</b>	*	MELILOTUS ALBA	White sweet clover	A-FORB	Fabaceae
/IELOFF	*	MELILOTUS OFFICINALIS	Yellow sweet clover	A-FORB	Fabaceae
/IENCAN	8	Menispermum canadense	Moonseed	W-VINE	Menispermaceae
/IENARV	3	Mentha arvensis	Field mint	P-FORB	Lamiaceae
/ienalb	4	Mentzelia albicaulis	Whitestem blazingstar	A-FORB	Loasaceae
<b>MENDEC</b>	5	Mentzelia decapetala	Tenpetal blazingstar	B-FORB	Loasaceae
/IENDIS	2	Mentzelia dispersa	Bushy blazingstar	A-FORB	Loasaceae
<b>MENNUD</b>	5	Mentzelia nuda	Bractless blazingstar	B-FORB	Loasaceae
/IENOLI	7	Mentzelia oligosperma	Stickleaf	P-FORB	Loasaceae
	10	Mentzelia pumila	Dwarf mentzelia	P-FORB	Loasaceae
	10	Menyanthes trifoliata	Buckbean	P-FORB	Menyanthaceae
	10	Mertensia ciliata	Tall fringed bluebells	P-FORB	Boraginaceae
MERLAN	9	Mertensia lanceolata	Prairie bluebells	P-FORB	Boraginaceae
/IEROBL	9	Mertensia oblongifolia	Oblongleaf bluebells	P-FORB	Boraginaceae
	10	Microseris cuspidata	False dandelion	P-FORB	Asteraceae
/IICCOS	9	Mimulus glabratus var. fremontii	Roundleafmonkeyflower	P-FORB	Scrophulariaceae
MIMGUT	8	Mimulus guttatus	Common yellow monkeyflower	A-FORB	Scrophulariaceae
MIMRIN	6	Mimulus ringens	Alleghany monkeyflower	P-FORB	Scrophulariaceae
/IIIVINIIN /IIRALB	6	Mirabilis albida	White four-o'clock	P-FORB	Nyctaginaceae
/IIINALD /IIRHIR	4	Mirabilis hirsuta	Hairy four-o'clock	P-FORB	Nyctaginaceae
	7	Mirabilis linearis	Narrowleaf four-o'clock	P-FORB	Nyctaginaceae
MRLIN			Wild four-o'clock	P-FORB	Nyctaginaceae
IIRNYC	2	Mirabilis nyctaginea	Bishop's cap	P-FORB	Saxifragaceae
	10 *	Mitella nuda		A-FORB	Molluginaceae
OLVER		Mollugo Verticillata	Carpetweed		Lamiaceae
ONFIF	5	Monarda fistulosa var. fistulosa	Wild bergamot	P-FORB	
IONFIM	5	Monarda fistulosa var. menthifolia	Wild bergamot	P-FORB	Lamiaceae
10NPEC	5	Monarda pectinata	Spotted beebalm	A-FORB	Lamiaceae
10NNUT	3	Monolepis nuttalliana	Poverty weed	A-FORB	Chenopodiaceae
	10	Monotropa uniflora	Indian pipe	P-FORB	Monotropaceae
10NSQU	0	Monroa squarrosa	False buffalograss	A-GRASS	Poaceae
/IORALB	*	MORUSALBA	White mulberry	TREE	Moraceae
TOTOTED		Muhlenbergia asperifolia	Scratchgrass	P-GRASS	Poaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
MUHCUS	8	Muhlenbergia cuspidata	Plains muhly	P-GRASS	Poaceae
MUHFIL	10	Muhlenbergia filiformis	Pullup muhly	A-GRASS	Poaceae
<b>MUHFRO</b>	4	Muhlenbergia frondosa	Wirestem muhly	P-GRASS	Poaceae
MUHGLO	10	Muhlenbergia glomerata	Spiked muhly	P-GRASS	Poaceae
MUHMEX	4	Muhlenbergia mexicana	Mexican muhly	P-GRASS	Poaceae
MUHPUN	7	Muhlenbergia pungens	Sandhill muhly	P-GRASS	Poaceae
MUHRAC	4	Muhlenbergia racemosa	Marsh muhly	P-GRASS	Poaceae
MUHRIC	10	Muhlenbergia richardsonis	Matmuhly	P-GRASS	Poaceae
MUHSYL	5	Muhlenbergia sylvatica	Forestmuhly	P-GRASS	Poaceae
MUSDIV	6	Musineon divaricatum	Leafy wildparsley	P-FORB	Apiaceae
MYOMIN	2	Myosurus minimus	Mousetail	A-FORB	Ranunculaceae
Myrexa	3	Myriophyllum exalbescens	American milfoil	P-FORB	Haloragaceae
MYRHET	9	Myriophyllum heterophyllum	Twoleaf watermilfoil	P-FORB	Haloragaceae
MYRPIN	9	Myriophyllum pinnatum	Green parrot's feather	P-FORB	Haloragaceae
MYRSPI	*	MÝRIÓPHYLLÚM SPICATUM	Pale watermilfoil	P-FORB	Haloragaceae
MYRVER	9	Myriophyllum verticillatum	Whorl-leaf watermilfoil	P-FORB	Haloragaceae
NAJFLE	6	Najas flexilis	Nodding waternymph	A-FORB	Najadaceae
NAJGUA	2	Najas guadalupensis	Southern waternymph	A-FORB	Najadaceae
NAJMAR	*	NAJAS MARINA	Spiny naiad	A-FORB	Najadaceae
NASOFF	*	NASTURTIUM OFFICINALE	Watercress	P-FORB	Brassicaceae
NAVINT	5	Navarretia intertexta var. propinqua	Needleleafnavarretia	A-FORB	Polemoniaceae
NEPCAT	*	NEPETA CATARIA	Catnip	P-FORB	Lamiaceae
NESPAN	*	NESLIA PANICULATA	Ball mustard	A-FORB	Brassicaceae
NUPLUT	8	Nuphar luteum var. variegatum	Yellow water lily	P-FORB	Nymphaeceae
NYMODO	9	Nymphaea odorata	Fragrant white waterlily	P-FORB	Nymphaeceae
NYMTUB	9	Nymphaea tuberosa	White waterlily	P-FORB	Nymphaeceae
OENALB	5	Oenothera albicaulis	Prairie evening primrose	A-FORB	Onagraceae
OENBIE	0	Oenothera biennis	Common evening primrose	B-FORB	Onagraceae
OENCAE	8	Oenothera caespitosa	Gumbo evening primrose	P-FORB	Onagraceae
OENCOR	6	Oenothera coronopifolia	Combleaf evening primrose	P-FORB	Onagraceae
OENFLA	8	Oenothera flava	Yellow evening primrose	P-FORB A-FORB	Onagraceae
OENLAC	1	Oenothera laciniata	Cutleaf evening primrose	P-FORB	Onagraceae Onagraceae
OENNUT	8	Oenothera nuttallii	Whitestem evening primrose	B-FORB	Onagraceae
OENRHO	4 10	Oenothera rhombipetala Onoclea sensibilis	Fourpoint evening primrose Sensitive fern	FERN	Polypodiaceae
ONOSEN		Onosmodium mollevar. occidentale	False gromwell	P-FORB	Boraginaceae
ONOMOL OPHVUL	7 10	Ophioglossum vulgatum var. pseudopodum	Northern adder's-tongue	FERN	Ophioglossaceae
OPUFRA	5	Opuntia fragilis	Brittle pricklypear	SHRUB	Cactaceae
OPUMAC	5	Opuntia macrorhiza	Twistspine pricklypear	SHRUB	Cactaceae
OPUPOL	3	Opuntia macroniza Opuntia polyacantha	Plains pricklypear	SHRUB	Cactaceae
OROFAS	9	Orobanche fasciculata	Clustered broomrape	P-FORB	Orobanchaceae
OROLUD	10	Orobanche ludoviciana	Louisiana broomrape	P-FORB	Orobanchaceae
OROUNI	10	Orobanche uniflora	One-flowered broomrape	P-FORB	Orobanchaceae
ORTLUT	6	Orthocarpus luteus	Owl clover	A-FORB	Scrophulariaceae
ORYASP	8	Oryzopsis asperifolia	Roughleafricegrass	P-GRASS	Poaceae
ORYHYM	5	Oryzopsis hymenoides	Indian ricegrass	P-GRASS	Poaceae
ORYMIC	8	Oryzopsis micrantha	Littleseed ricegrass	P-GRASS	Poaceae
ORYPUN	10	Oryzopsis pungens	Mountain ricegrass	P-GRASS	Poaceae
ORYRAC	8	Oryzopsis racemosa	Blackseedricegrass	P-GRASS	Poaceae
OSMCLA	10	Osmorhiza claytonii	Sweetjarvil	P-FORB	Apiaceae
OSMLOL	7	Osmorhiza longistylis var. longistylis	Aniseroot	P-FORB	Apiaceae
<b>OSMLOV</b>	7	Osmorhiza longistylis var. villicaulis	Aniseroot	P-FORB	Apiaceae
<b>OSTVIR</b>	9	Ostrya virginiana	Hop-hornbeam	TREE	Betulaceae
<b>OXADIL</b>	5	Oxalis dillenii	Gray-green wood sorrel	P-FORB	Oxalidaceae
<b>OXASTR</b>	0	Oxalis stricta	Yellow wood sorrel	P-FORB	Oxalidaceae
<b>OXAVIO</b>	7	Oxalis violacea	Violet wood sorrel	P-FORB	Oxalidaceae
OXYCAM	8	Oxytropis campestris var. gracilis	Slenderlocoweed	P-FORB	Fabaceae
OXYDEF	8	Oxytropis deflexa var. sericea	Pendulous-pod loco	P-FORB	Fabaceae
OXYLAM	5	Oxytropis lambertii	Purple locoweed	P-FORB	Fabaceae
OXYSER	6	Oxytropis sericea	White locoweed	P-FORB	Fabaceae
	0	Oxytropis splendens	Showylocoweed	P-FORB	Fabaceae
OXYSPL PANQUI	9 10	Panax quinquefolium	Ginseng	P-FORB	Araliaceae

Acronyn	n C	Scientific Name	Common Name	Physiognomy	Family
PANCAP	0	Panicum capillare	Common witchgrass	A-GRASS	Poaceae
PANDIC	0	Panicum dichotomiflorum	Fall panicum	A-GRASS	Poaceae
PANMIL	*	PANICUM MILIACEUM	Broom-corn millet	A-GRASS	Poaceae
PANVIR	5	Panicum virgatum	Switchgrass	P-GRASS	Poaceae
PARPEN	3	Parietaria pensylvanica	Pennsylvania pellitory	A-FORB	Urticaceae
PARGLA	10	Parnassia glauca	Grass-of-parnassus	P-FORB	Saxifragaceae
PARPAL	10	Parnassia palustris	Northern grass-of-parnassus	P-FORB	Saxifragaceae
PARPAR	8	Parnassia parviflora	Smallflower grass-of-parnassus	P-FORB	Saxifragaceae
PARDEP	7	Paronychia depressa	Spreading nailwort	P-FORB	Caryophyllaceae
PARSES	7	Paronychia sessiliflora	Whitlowwort	P-FORB	Caryophyllaceae
PARQUI	2	Parthenocissus quinquefolia	Virginia creeper	W-VINE	Vitaceae
PARVIT	2	Parthenocissus vitacea	Thicket creeper	W-VINE	Vitaceae
PASSAT	*	PASTINACA SATIVA	Wild parsnip	B-FORB	Apiaceae
		Pedicularis canadensis	Wood betony	P-FORB	Scrophulariaceae
PEDCAN	10			P-FORB	Scrophulariaceae
PEDLAN	10	Pedicularis lanceolata	Swamp lousewort	FERN	
PELATR	10	Pellaea atropurpurea	Purplestem cliffbrake		Polypodiaceae
PELGLG	10	Pellaea glabella var. glabella	Smooth cliffbrake	FERN	Polypodiaceae
PELGLO	10	Pellaea glabella var. occidentalis	Dwarf cliffbrake	FERN	Polypodiaceae
PENALB	7	Penstemon albidus	White beardtongue	P-FORB	Scrophulariaceae
PENANG	9	Penstemon angustifolius var. angustifolius	Narrow beardtongue	P-FORB	Scrophulariaceae
PENDIG	*	PENSTEMON DIGITALIS	Smooth penstemon	P-FORB	Scrophulariaceae
PENERI	10	Penstemon eriantherus	Crested beardtongue	P-FORB	Scrophulariaceae
PENGLA	7	Penstemon glaber	Sawsepal penstemon	P-FORB	Scrophulariaceae
PENGRC	6	Penstemon gracilis	Slender beardtongue	P-FORB	Scrophulariaceae
PENGRN	5	Penstemon grandiflorus	Large beardtongue	P-FORB	Scrophulariaceae
PENHAY	10	Penstemon haydenii	Hayden's penstemon	P-FORB	Scrophulariaceae
PENNIT	7	Penstemon nitidus	Waxleaf penstemon	P-FORB	Scrophulariaceae
PENPRO	10	Penstemon procerus	Littleflower penstemon	P-FORB	Scrophulariaceae
PENSED	3	Penthorum sedoides	Ditch stonecrop	P-FORB	Crassulaceae
PETFRI	10	Petasites frigidus	Arctic sweet coltsfoot	P-FORB	Asteraceae
PETSAG	10	Petasites ingitus Petasites sagittatus	Arrowleaf sweet coltsfoot	P-FORB	Asteraceae
PHAHAS	5	Phacelia hastatavar. leucophylla	Scorpionweed	P-FORB	Hydrophyllaceae
	5	Phacelia linearis	Threadleaf phacelia	A-FORB	Hydrophyllaceae
PHALIN			Reed canarygrass	P-GRASS	Poaceae
PHAARU	0	Phalaris arundinacea		A-GRASS	Poaceae
PHACAN	*	PHALARIS CANARIENSIS	Canarygrass	P-GRASS	Poaceae
PHLPRA		PHLEUM PRATENSE	Timothy		Polemoniaceae
PHLALY	9	Phlox alyssifolia	Alyssumleaf phlox	P-FORB	Polemoniaceae
PHLAND	7	Phlox andicola	Plains phlox	P-FORB	
PHLDIV	10	Phlox divaricata subsp. laphamii	Blue phlox	P-FORB	Polemoniaceae
PHLH00	6	Phlox hoodii	Hood's phlox	P-FORB	Polemoniaceae
PHLPIL	10	Phlox pilosa subsp. fulgida	Prairie phlox	P-FORB	Polemoniaceae
PHRAUS	0	Phragmites australis	Common reed	P-GRASS	Poaceae
PHRLEP	8	Phryma leptostachya	Lopseed	P-FORB	Verbenaceae
PHYHET	5	Physalis heterophylla	Clammy groundcherry	P-FORB	Solanaceae
PHYLON	0	Physalis longifolia	Common groundcherry	P-FORB	Solanaceae
PHYPUM	8	Physalis pumila subsp. hispida	Prairie groundcherry	P-FORB	Solanaceae
PHYVIR	4	Physalis virginiana	Virginia groundcherry	P-FORB	Solanaceae
HYBRA	8	Physaria brassicoides	Double bladderpod	P-FORB	Brassicaceae
PHYOPU	8	Physocarpus opulifolius	Ninebark	SHRUB	Rosaceae
HYLED	8	Physostegia ledinghamii	Ledingham's false dragonhead	P-FORB	Lamiaceae
HYPAR	7	Physostegia parviflora	Obedient plant	P-FORB	Lamiaceae
HYVIR	3	Physostegia virginiana	Virginia lionsheart	P-FORB	Lamiaceae
ICOPP	2	Picradeniopsis oppositifolia	Oppositeleaf bahia	P-FORB	Asteraceae
ICW00	2	Picradeniopsis woodhousei	Woodhouse's bahia	P-FORB	Asteraceae
ICECH	*	PICRIS ECHIOIDES	Ox-tongue	A-FORB	Asteraceae
PILFON		Pilea fontana	Clearweed	A-FORB	Urticaceae
	8		Clearweed	A-FORB	Urticaceae
ILPUM	4	Pilea pumila		TREE	Pinaceae
INFLE	10	Pinus flexilis	Limber pine		
INPON	6	Pinus ponderosa	Ponderosa pine	TREE	Pinaceae
LASCO	0	Plagiobothrys scouleri	Popcorn-flower	A-FORB	Boraginaceae
MACIO	3	Plantago elongata	Slender plantain	A-FORB	Plantaginaceae
PLAELO PLAERI	5	Plantago eriopoda	Alkali plantain	P-FORB	Plantaginaceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
PLALAN	*	PLANTAGO LANCEOLATA	Buckhorn	P-FORB	Plantaginaceae
PLAMAJ	*	PLANTAGO MAJOR	Common plantain	P-FORB	Plantaginaceae
LAPAT	1	Plantago patagonica	Patagonian plantain	A-FORB	Plantaginaceae
LARUG	0	Plantago rugelii	Rugel's plantain	P-FORB	Plantaginaceae
OAANN	*	POA ANNUA	Annual bluegrass	A-GRASS	Poaceae
OAARI	6	Poa arida	Plains bluegrass	P-GRASS	Poaceae
OACAN	8	Poa canbyi	Canby's bluegrass	P-GRASS	Poaceae
OACOM	*	POACOMPRESSA	Canada bluegrass	P-GRASS	Poaceae
OACUS	8	Poa cusickii	Cusick's bluegrass	P-GRASS	Poaceae
OAFEN	8	Poa fendleriana	Muttongrass	P-GRASS	Poaceae
OAGLA	8	Poa glaucifolia	Plains bluegrass	P-GRASS	Poaceae
OAINT	5	Poa interior	Inland bluegrass	P-GRASS	Poaceae
OAJUN	8	Poa juncifolia	Sandberg's bluegrass	P-GRASS	Poaceae
OAPAL	4	Poa palustris	Fowl bluegrass	P-GRASS	Poaceae
OAPRA	*	POA PRATENSIS	Kentucky bluegrass	P-GRASS	Poaceae
OASAN	8	Poa sandbergii	Sandberg's bluegrass	P-GRASS	Poaceae
			Woodland bluegrass	P-GRASS	Poaceae
OASYL	9	Poa sylvestris	Clammy-weed	A-FORB	Capparaceae
OLDOD	2	Polanisia dodecandra subsp. trachysperma			
MALJO	3	Polanisia jamesii	Cristatella	A-FORB	Capparaceae
OLALB	5	Polygala alba	White milkwort	P-FORB	Polygalaceae
	10	Polygala senega	Seneca snakeroot	P-FORB	Polygalaceae
OLVER	8	Polygala verticillata	Whorled milkwort	A-FORB	Polygalaceae
OLBIF	8	Polygonatum biflorum	Solomon's seal	P-FORB	Liliaceae
OLACH	*	POLYGONUM ACHOREUM	Knotweed	A-FORB	Polygonaceae
OLAME	0	Polygonum amphibium var. emersum	Swamp smartweed	P-FORB	Polygonaceae
OLAMS	6	Polygonum amphibium var. stipulaceum	Watersmartweed	P-FORB	Polygonaceae
OLARE	0	Polygonum arenastrum	Knotweed	A-FORB	Polygonaceae
OLAVI	0	Polygonum aviculare	Knotweed	A-FORB	Polygonaceae
OLBIC	0	Polygonum bicorne	Pink smartweed	A-FORB	Polygonaceae
OLBUX	0	Polygonum buxiforme	Knotweed	A-FORB	Polygonaceae
OLCON	*	POLYGONUM CONVOLVULUS	Wild buckwheat	H-VINE	Polygonaceae
огроп	3	Polygonum douglasii	Knotweed	A-FORB	Polygonaceae
OLERE	0	Polygonum erectum	Erect knotweed	A-FORB	Polygonaceae
POLHYR	*	POLYGONUM HYDROPIPER	Waterpepper	A-FORB	Polygonaceae
POLHYO	7	Polygonum hydropiperoides	Mild water pepper	P-FORB	Polygonaceae
POLLAP	í	Polygonum lapathifolium	Pale smartweed	A-FORB	Polygonaceae
POLNEG	*	POLYGONUM NEGLECTUM	Knotweed	A-FORB	Polygonaceae
	0		Pennsylvania smartweed	A-FORB	Polygonaceae
POLPEN	*	Polygonum pensylvanicum POLYGONUM PERSICARIA	Lady's thumb	A-FORB	Polygonaceae
POLPER			Water smartweed	P-FORB	Polygonaceae
POLPUN	7	Polygonum punctatum		A-FORB	Polygonaceae
POLRAM	3	Polygonum ramosissimum	Bushy knotweed	A-FORB	
OLSAG	9	Polygonum sagittatum	Tear-thumb		Polygonaceae
POLSCA	0	Polygonum scandens	Climbing false buckwheat	H-VINE	Polygonaceae
POLTEN	7	Polygonum tenue	Knotweed	A-FORB	Polygonaceae
	10	Polypodium hesperium	Western polypody	FERN	Polypodiaceae
POLVIR	7	Polypodium virginianum	Common polypody	FERN	Polypodiaceae
POLMON	*	POLYPOGON MONSPELIENSIS	Rabbitfoot grass	A-GRASS	Poaceae
POPALB	*	POPULUS ALBA	Silverpoplar	TREE	Salicaceae
POPANG	4	Populus angustifolia	Narrowleaf cottonwood	TREE	Salicaceae
OPBAL	6	Populus balsamifera	Balsam poplar	TREE	Salicaceae
POPDEL	3	Populus deltoides subsp. monilifera	Cottonwood	TREE	Salicaceae
OPGRA	6	Populus grandidentata	Bigtooth aspen	TREE	Salicaceae
OPNIG	*	POPULUSNIGRA	Black poplar	TREE	Salicaceae
OPTRE	4	Populus tremuloides	Quaking aspen	TREE	Salicaceae
OPACU	3	Populus x acuminata	Lanceleafcottonwood	TREE	Salicaceae
POPCAD	*	POPULUS X CANADENSIS	Carolina poplar	TREE	Salicaceae
POPCAS	*	POPULUS X CANESCENS	Gray poplar	TREE	Salicaceae
POPJAC	*	POPULUSXJACKII	Balm-of-gilead	TREE	Salicaceae
POROLE	*	PORTULACA OLERACEA	Common purslane	A-FORB	Portulaceae
POTAMP	8	Potamogeton amplifolius	Largeleafpondweed	P-FORB	Potamogetonaceae
POTCRI	*	POTAMOGETON CRISPUS	Curly muckweed	P-FORB	Potamogetonaceae
01011		Potamogeton diversifolius	Waterthread pondweed	P-FORB	Potamogetonaceae
POTDIV	4				

Acronym	n C	Scientific Name	Common Name	Physiognomy	Family
POTFOL	2	Potamogeton foliosus	Leafy pondweed	P-FORB	Potamogetonaceae
POTFRI	8	Potamogeton friesii	Fries' pondweed	P-FORB	Potamogetonaceae
POTGRA	6	Potamogeton gramineus	Variable pondweed	P-FORB	Potamogetonaceae
POTILL	8	Potamogeton illinoensis	Illinois pondweed	P-FORB	Potamogetonaceae
POTNAT	10	Potamogeton natans	Floatingleaf pondweed	P-FORB	Potamogetonaceae
POTNOD	4	Potamogeton nodosus	Longleafpondweed	P-FORB	Potamogetonaceae
POTPEC	0	Potamogeton pectinatus	Sago pondweed	P-FORB	Potamogetonaceae
POTPRA	10	Potamogeton praelongus	Whitestem pondweed	P-FORB	Potamogetonaceae
POTPUP	2	Potamogeton pusillus var. pusillus	Baby pondweed	P-FORB	Potamogetonaceae
POTPUT	5	Potamogeton pusillus var. tenuissimus	Baby pondweed	P-FORB	Potamogetonaceae
POTRIC	4	Potamogeton richardsonii	Claspingleaf pondweed	P-FORB	Potamogetonaceae
POTSTR	10	Potamogeton strictifolius	Narrowleafpondweed	P-FORB	Potamogetonaceae
<b>POTVAG</b>	10	Potamogeton vaginatus	Sheathed pondweed	P-FORB	Potamogetonaceae
POTZOS	7	Potamogeton zosteriformis	Flatstem pondweed	P-FORB	Potamogetonaceae
<b>POTANS</b>	2	Potentilla anserina	Silverweed	P-FORB	Rosaceae
POTARE	*	POTENTILLA ARGENTEA	Silvery cinquefoil	P-FORB	Rosaceae
POTARU	8	Potentilla arguta	Tall cinquefoil	P-FORB	Rosaceae
POTCON	8	Potentilla concinna	Elegant cinquefoil	P-FORB	Rosaceae
POTFRU	5	Potentilla fruticosa	Shrubby cinquefoil	SHRUB	Rosaceae
POGRAC	5	Potentilla gracilis	Slender cinquefoil	P-FORB	Rosaceae
POTHIP	8	Potentilla hippiana	Woolly cinquefoil	P-FORB	Rosaceae
POTNOR	Ö	Potentilla norvegica	Norwegian cinquefoil	A-FORB	Rosaceae
POTPAR	2	Potentilla paradoxa	Bushy cinquefoil	A-FORB	Rosaceae
POTPEN	9	Potentilla pensylvanica	Pennsylvania cinquefoil	P-FORB	Rosaceae
	8	Potentilla plattensis	Platte River cinquefoil	P-FORB	Rosaceae
POTPLA POTREC	*	POTENTILLA RECTA	Sulphur cinquefoil	P-FORB	Rosaceae
POTRIV	3	Potentilla rivalis	Brook cinquefoil	A-FORB	Rosaceae
PREALB	10	Prenanthes alba	White rattlesnake-root	P-FORB	Asteraceae
PREASP	10	Prenanthes aspera	Rough rattlesnake-root	P-FORB	Asteraceae
PRERAC	10	Prenanthes racemosa subsp. multiflora	Glaucous white lettuce	P-FORB	Asteraceae
	10	Primula incana	Primrose	P-FORB	Primulaceae
PRIINC PRUVUL	6	Prunella vulgaris var. lanceolata	Self-heal	P-FORB	Lamiaceae
PRUAME	4	Prunus americana	Wild plum	SHRUB	Rosaceae
PRUMEX	5	Prunus mexicana	Bigtree plum	TREE	Rosaceae
PRUPEN	8		Pin cherry	TREE	Rosaceae
PRUPUM	8	Prunus pensylvanica Prunus pumila var. besseyi	Sand cherry	SHRUB	Rosaceae
PRUVIR	4		Choke cherry	SHRUB	Rosaceae
PSOARG	4	Prunus virginiana Psoralea argophylla	Silverleaf scurfpea	P-FORB	Fabaceae
PSOCUS	8	Psoralea cuspidata	Tallbread scurfpea	P-FORB	Fabaceae
PSOESC	9	Psoralea esculenta	Breadrootscurfpea	P-FORB	Fabaceae
	6	Psoralea lanceolata	Lemon scurfpea	P-FORB	Fabaceae
PSOLAN PSOLIN	10	Psoralea linearifolia	Slimleaf scurfpea	P-FORB	Fabaceae
	7	Psoralea tenuiflora var. tenuiflora	Wild alfalfa	P-FORB	Fabaceae
PSOTEN PTEAQU	6	Pteridium aquilinum var. latius culum	Bracken	FERN	Polypodiaceae
PUCCUS	р 7	Puccinellia cusickii	Nuttall's alkaligrass	P-GRASS	Poaceae
	<i>/</i>	PUCCINELLIA DISTANS	Weeping alkaligrass	P-GRASS	Poaceae
PUCDIS		Puccinellia nuttalliana	Nuttall's alkaligrass	P-GRASS	Poaceae
PUCNUT	4		Virginia mountain mint	P-FORB	Lamiaceae
PYCVIR	6	Pycnanthemum virginianum	Roundleafwintergreen	P-FORB	Pyrolaceae
PYRASA	8	Pyrola asarifolia	Wild lily-of-the-valley	P-FORB	Pyrolaceae
PYRELL	10	Pyrola elliptica		P-FORB	Pyrolaceae
PYRSEC	8	Pyrola secunda	Oneside wintergreen Iowa crab	TREE	Rosaceae
PYRIOE	7	Pyrus ioensis	iowa crab Buroak	TREE	Fagaceae
QUEMAC	6	Quercus macrocarpa		B-FORB	Ranunculaceae
RANABO	2	Ranunculus abortivus	Early wood buttercup	P-FORB	Ranunculaceae
RANACR	*	RANUNCULUS ACRIS	Tall buttercup	P-FORB P-FORB	Ranunculaceae
RANCAR	8	Ranunculus cardiophyllus	Heartleaf buttercup		
RANCYM	3	Ranunculus cymbalaria	Shore buttercup	P-FORB	Ranunculaceae
RANFAS	6	Ranunculus fascicularis	Early buttercup	P-FORB	Ranunculaceae
RANFLB	7	Ranunculus flabellaris	Threadleaf buttercup	P-FORB	Ranunculaceae
RANFLM	4	Ranunculus flammula	Spearwort	P-FORB	Ranunculaceae
RANGLA	8	Ranunculus glaberrimus	Sagebrush buttercup	P-FORB	Ranunculaceae
RANGME	8	Ranunculus gmelinii Ranunculus hispidus var. caricetorum	Small yellow buttercup Bristly buttercup	P-FORB P-FORB	Ranunculaceae Ranunculaceae
RANHIC	7				

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
RANHIN	7	Ranunculus hispidus var. nitidus	Marsh buttercup	P-FORB	Ranunculaceae
RANLON	7	Ranunculus longirostris	White water crowfoot	P-FORB	Ranunculaceae
RANMAC	4	Ranunculus macounii	Macoun's buttercup	A-FORB	Ranunculaceae
RANPEN	4	Ranunculus pensylvanicus	Bristly crowfoot	A-FORB	Ranunculaceae
RANREC	8	Ranunculus recurvatus	Hooked buttercup	P-FORB	Ranunculaceae
RANRHO	8	Ranunculus rhomboideus	Prairie buttercup	P-FORB	Ranunculaceae
ANSCE	3	Ranunculus sceleratus	Cursed crowfoot	A-FORB	Ranunculaceae
RANSUB	3	Ranunculus subrigidus	White water crowfoot	P-FORB	Ranunculaceae
RAPSAT	*	RAPHANUS SATIVUS	Radish	A-FORB	Brassicaceae
RATCOL	3	Ratibida columnifera	Prairie coneflower	P-FORB	Asteraceae
RATPIN	6	Ratibida pinnata	Grayhead prairie coneflower	P-FORB	Asteraceae
REDFLE	8	Redfielda flexuosa	Blowoutgrass	P-GRASS	Poaceae
RHAALN	10	Rhamnus alnifolia	Alder buckthorn	SHRUB	Rhamnaceae
RHACAT	*	RHAMNUS CATHARTICA	Common buckthorn	SHRUB	Rhamnaceae
RHALAN	10	Rhamnus lanceolatavar. glabratus	Lanceleaf buckthorn	SHRUB	Rhamnaceae
HERHA	*	RHEUMRHABARBARUM	Rhubarb	P-FORB	Polygonaceae
				SHRUB	Anacardiaceae
HUARO	7	Rhus aromatica	Fragrant sumac Smooth sumac	SHRUB	Anacardiaceae
HUGLA	4	Rhus glabra	Hair beak rush	P-SEDGE	Cyperaceae
HYCAP	10	Rhynchospora capillacea	Wild black currant	SHRUB	Grossulariaceae
IBAME	7	Ribes americanum		SHRUB	Grossulariaceae
IBCER	7	Ribes cereum	Western red currant		
IBCYN	9	Ribes cynosbati	Dogberry	SHRUB	Grossulariaceae
IBHIR	7	Ribes hirtellum	Hairystem gooseberry	SHRUB	Grossulariaceae
IBMIS	4	Ribes missouriense	Missouri gooseberry	SHRUB	Grossulariaceae
IBODO	6	Ribes odoratum	Buffalo currant	SHRUB	Grossulariaceae
IBOXY	5	Ribes oxyacanthoides	Bristly gooseberry	SHRUB	Grossulariaceae
ibtri	10	Ribes triste	Swamp currant	SHRUB	Grossulariaceae
OBPSE	*	ROBINA PSEUDO-ACACIA	Blacklocust	TREE	Fabaceae
ORAUS	*	RORIPPA AUSTRIACA	Austrian yellowcress	P-FORB	Brassicaceae
ORCAL	10	Rorippa calycina	Persistentyellowcress	P-FORB	Brassicaceae
ORCUR	5	Rorippa curvipes	Bluntleafyellowcress	B-FORB	Brassicaceae
ORPAF	2	Rorippa palustris subsp. glabra var. fernaldiana	Bogyellowcress	A-FORB	Brassicaceae
ORPAG	2	Rorippa palustris subsp. glabra var. glabrata	Bogyellowcress	A-FORB	Brassicaceae
ORPAE	2	Rorippa palustris subsp. hispida var. elongata	Bogyellowcress	A-FORB	Brassicaceae
ORPAH	2	Rorippa palustris subsp. hispida var. hispida	Bogyellowcress	A-FORB	Brassicaceae
ORSIN	4	Rorippa sinuata	Spreading yellowcress	P-FORB	Brassicaceae
ORSYL	*	RORIPPA SYLVESTRIS	Creeping yellowcress	P-FORB	Brassicaceae
ORTEN	6	Rorippa tenerrima	Modocyellowcress	A-FORB	Brassicaceae
ORTRU	6	Rorippa truncata	Bluntleafyellowcress	A-FORB	Brassicaceae
OSACI	8	Rosa acicularis subsp. sayi	Prickly wild rose	SHRUB	Rosaceae
OSARK	3	Rosa arkansana	Prairie wild rose	SHRUB	Rosaceae
OSBLA	8	Rosa blanda	Smooth wild rose	SHRUB	Rosaceae
OSW00	5	Rosa woodsii	Western wild rose	SHRUB	Rosaceae
OTRAM	2	Rotala ramosior	Toothcup	A-FORB	Lythraceae
		Rubus idaeus	Redraspberry	SHRUB	Rosaceae
UBIDA	5	subsp. s <i>achalinensis</i> var. <i>sachalinensis</i>	пецтавриенту	JIIIOD	10000000
LIDOCC			Blackraspberry	SHRUB	Rosaceae
UBOCC	5	Rubus occidentalis	Creeping blackberry	SHRUB	Rosaceae
UBPUB	8	Rubus pubescens		B-FORB	Asteraceae
UDHIR	5	Rudbeckia hirta	Black-eyed susan	P-FORB	_
UDLAC	6	Rudbeckia laciniata	Golden glow		Asteraceae
UMACE	*	RUMEXACETOSELLA	Sheep sorrel	P-FORB	Polygonaceae
UMALT	2	Rumex altissimus	Pale dock	P-FORB	Polygonaceae
UMCRI	*	RUMEX CRISPUS	Curly dock	P-FORB	Polygonaceae
UMDOM	*	RUMEX DOMESTICUS	Yard dock	P-FORB	Polygonaceae
UMMAR	1	Rumex maritimus	Golden dock	A-FORB	Polygonaceae
ummex	1	Rumex mexicanus	Willow-leaved dock	P-FORB	Polygonaceae
UMOCC	7	Rumex occidentalis	Westerndock	P-FORB	Polygonaceae
UMORB	9	Rumex orbiculatus	Great water dock	P-FORB	Polygonaceae
UMPAT	*	RUMEX PATIENTIA	Patience dock	P-FORB	Polygonaceae
UMSTE	*	RUMEX STENOPHYLLUS	Eurasian dock	P-FORB	Polygonaceae
UMVEN	3	Rumex venosus	Wild begonia	P-FORB	Polygonaceae
UPMAR	6	Ruppia maritima	Widgeon grass	P-FORB	Ruppiaceae
ULIVIAD			VVIUGCOTTGTGGG	1 1010	

Acronyr	n C	Scientific Name	Common Name	Physiognomy	Family
SAGCAL	5	Sagittaria calycina	Arrowhead	A-FORB	Alismataceae
SAGCUN	6	Sagittaria cuneata	Arrowhead	P-FORB	Alismataceae
SAGGRA	10	Sagittaria graminea	Grassleaf arrowhead	P-FORB	Alismataceae
SAGLAT	6	Sagittaria latifolia	Common arrowhead	P-FORB	Alismataceae
Salrub	0	Salicornia rubra	Saltwort	A-FORB	Chenopodiaceae
Salalb	*	SALIX ALBA VAR. VITELLINA	Yellowstem white willow	TREE	Salicaceae
Salamy	3	Salix amygdaloides	Peachleafwillow	TREE	Salicaceae
Salbeb	8	Salix bebbiana	Beaked willow	SHRUB	Salicaceae
SALCAN	10	Salix candida	Hoary willow	SHRUB	Salicaceae
SALDIS	7	Salix discolor	Pussy willow	SHRUB	Salicaceae
Saleri	5	Salix eriocephala	Diamond willow	SHRUB	Salicaceae
Salexe	3	Salix exigua subsp. exigua	Coyote willow	SHRUB	Salicaceae
SALEXI	3	Salix exigua subsp. interior	Sandbarwillow	SHRUB	Salicaceae
Salfra	*	SALIXFRAGILIS	Crack willow	TREE	Salicaceae
Salhum	9	Salix humilis	Prairie willow	SHRUB	Salicaceae
SALLUC	10	Salix lucida	Shining willow	SHRUB	Salicaceae
SALLUT	5	Salix lutea	Yellow willow	SHRUB	Salicaceae
SALMAC	10	Salix maccalliana	McCalla's willow	SHRUB	Salicaceae
SALPED	10	Salix pedicellaris	Bog willow	SHRUB	Salicaceae
SALPEN	*	SALIX PENTANDRA	Laurelleaf willow	SHRUB	Salicaceae
SALPET	8	Salix petiolaris	Meadow willow	SHRUB	Salicaceae
SALSER	8	Salix serissima	Autumn willow	SHRUB	Salicaceae
SALCOL	*	SALSOLA COLLINA	Tumbleweed	A-FORB	Chenopodiaceae
SALIBE	*	SALSOLA IBERICA	Russian thistle	A-FORB	Chenopodiaceae
SALNEM	*	SALVIANEMOROSA	Sage	P-FORB	Lamiaceae
SALREF	0	Salvia reflexa	Lance-leaved sage	A-FORB	Lamiaceae
SAMCAN	_	Sambucus canadensis	Common elderberry	SHRUB	Caprifoliaceae
SAMRAC	10	Sambucus racemosa subsp. pubens	Stinking elderberry	SHRUB	Caprifoliaceae
SANCAD	10	Sanguinaria canadensis	Bloodroot	P-FORB	Papaveraceae
SANCAE	7	Sanicula canadensis	Canada sanicle	B-FORB	Apiaceae
SANGRE	8	Sanicula gregaria	Cluster sanicle	P-FORB	Apiaceae
SANMAR		Sanicula marilandica	Blacksnakeroot	P-FORB	Apiaceae
SAPOFF	*	SAPONARIA OFFICINALIS	Bouncing bet	P-FORB	Caryophyllaceae
SARVER	5	Sarcobatus vermiculatus	Greasewood	SHRUB	Chenopodiaceae
SCHPAN	i	Schedonnardus paniculatus	Tumblegrass	P-GRASS	Poaceae
SCHPAL	10	Scheuchzeria palustris	Rannochrush	P-FORB	Scheuchzeriaceae
SCHPUR	8	Schizachne purpurascens	False melic	P-GRASS	Poaceae
SCHNUT	7	Schrankia nuttallii	Catclaw sensitive brier	P-FORB	Mimosaceae
SCIACU	5	Scirpus acutus	Hardstem bulrush	P-SEDGE	Cyperaceae
SCIATO	10	Scirpus atrocinctus	Blackgirdle bulrush	P-SEDGE	Cyperaceae
SCIATV	5	Scirpus atrovirens	Darkgreen bulrush	P-SEDGE	Cyperaceae
SCICYP	10	Scirpus cyperinus	Woolgrass	P-SEDGE	Cyperaceae
SCIFLU	2	Scirpus fluviatilis	River bulrush	P-SEDGE	Cyperaceae
SCIHAL	8	Scirpus hallii	Hall bulrush	A-SEDGE	Cyperaceae
SCIHET	8	Scirpus heterochaetus	Slender bulrush	P-SEDGE	Cyperaceae
SCIMAR	4	Scirpus maritimus var. paludosus	Prairie bulrush	P-SEDGE	Cyperaceae
SCIMIC	8	Scirpus microcarpus	Panicled bulrush	P-SEDGE	Cyperaceae
CINEV	10	Scirpus nevadensis	Nevada bulrush	P-SEDGE	Cyperaceae
CIPAL	5	Scirpus pallidus	Cloaked bulrush	P-SEDGE	Cyperaceae
CIPEN	10	Scirpus pendulus	Rufous bulrush	P-SEDGE	Cyperaceae
CIPUN	4	Scirpus pungens	Commonthreesquare	P-SEDGE	Cyperaceae
CISAX	7	Scirpus saximontanus	Rocky Mountain bulrush	A-SEDGE	Cyperaceae
CIVAL	3	Scirpus validus	Softstem bulrush	P-SEDGE	Cyperaceae
COFES	6	Scolochloa festucacea	Sprangletop	P-GRASS	Poaceae
CRLAN	5	Scrophularia lanceolata	Figwort	P-FORB	Scrophulariaceae
CRMAR	10	Scrophularia marilandica	Maryland figwort	P-FORB	Scrophulariaceae
CUGAL	7	Scropnularia maniandica Scutellaria galericulata	Marsh skullcap	P-FORB	Lamiaceae
	6	Scutellaria lateriflora	Maddog skullcap	P-FORB	Lamiaceae
CULAT		Scutellaria parvula var. leonardii	Leonard's small skullcap	P-FORB	Lamiaceae
CUPAR	10	Sedum lanceolatum	Spearleaf stone crop	P-FORB	Crassulaceae
SEDLAN	9		Small clubmoss	FERN	Selaginellaceae
SELDEN	6	Selaginella densa Selaginella rupestris	Rock spikemoss	FERN	Selaginellaceae
SELRUP	10	Volcamalla runactric			ZEISUIIIEUSCOSE

Acronym	C	Scientific Name	Common Name	Physiognomy	Family
SENCON	2	Senecio congestus	Swamp ragwort	A-FORB	Asteraceae
SENERE	10	Senecio eremophilus	Desertragwort	P-FORB	Asteraceae
SENINT	7	Senecio integerrimus	Lambstongue ragwort	B-FORB	Asteraceae
SENPAU	8	Senecio pauperculus	Balsam groundsel	P-FORB	Asteraceae
SENPLA	6	Senecio plattensis	Prairie ragwort	B-FORB	Asteraceae
SENPSE	5	Senecio pseudaureus var. semicordatus	Falsegold groundsel	P-FORB	Asteraceae
SENRID	5	Senecio riddellii	Riddell ragwort	SHRUB	Asteraceae
SENSPA	6	Senecio spartioides	Broomlike ragwort	SHRUB P-FORB	Asteraceae Asteraceae
SENTRI	8	Senecio tridenticulatus	Threetooth ragwort	A-FORB	Asteraceae
SENVUL	*	SENECIO VULGARIS	Groundsel Chinese foxtail	A-FUND A-GRASS	Poaceae
SETFAB	*	SETARIA FABERI	Yellow foxtail	A-GRASS	Poaceae
SETGLA	*	SETARIA GLAUCA	Foxtail millet	A-GRASS	Poaceae
SETITA SETI/ED	*	SETARIA ITALICA	Bristly foxtail	A-GRASS	Poaceae
SETVER	*	SETARIA VERTICILLATA SETARIA VIRIDIS	Green foxtail	A-GRASS	Poaceae
SETVIR SHEARG	5		Buffaloberry	SHRUB	Elaeagnaceae
SHECAN	5 6	Shepherdia argentea Shepherdia canadensis	Rabbitberry	SHRUB	Elaeagnaceae
SHIROS	10	Shinnersoseris rostrata	Beaked skeletonweed	A-FORB	Asteraceae
SICANG	2	Sicyos angulatus	Burcucumber	H-VINE	Cucurbitaceae
SILANT	3	Silene antirrhina	Sleepy catchfly	A-FORB	Caryophyllaceae
SILCSE	*	SILENE CSEREI	Smooth catchfly	B-FORB	Caryophyllaceae
SILDIC	*	SILENE DICHOTOMA	Forked catchfly	A-FORB	Caryophyllaceae
SILDRU	5	Silene drummondii	Drummond's campion	P-FORB	Caryophyllaceae
SILNOC	*	SILENE NOCTIFLORA	Night-flowering catchfly	A-FORB	Caryophyllaceae
SILPRA	*	SILENE PRATENSIS	White campion	P-FORB	Caryophyllaceae
SILSTE	7	Silene stellata	Starry campion	P-FORB	Caryophyllaceae
SILVUL	*	SILENE VULGARIS	Bladder campion	P-FORB	Caryophyllaceae
SILLAC	8	Silphium laciniatum	Compass plant	P-FORB	Asteraceae
SILPER	6	Silphium perfoliatum	Cup plant	P-FORB	Asteraceae
SISALT	*	SISYMBRIUM ALTISSIMUM	Tumbling mustard	A-FORB	Brassicaceae
SISLOE	*	SISYMBRIUM LOESELII	Tall hedge mustard	A-FORB	Brassicaceae
SISOFF	*	SISYMBRIUM OFFICINALE	Hedge mustard	A-FORB	Brassicaceae
SISCAM	10	Sisyrinchium campestre	White-eyed grass	P-FORB	Iridaceae
SISMON	8	Sisyrinchium montanum	Strict blue-eyed grass	P-FORB	Iridaceae
SISMUC	10	Sisyrinchium mucronatum	Needletip blue-eyed grass	P-FORB P-GRASS	Iridaceae
SITHYS	6	Sitanion hystrix var. brevifolium	Squirreltail		Poaceae
SIUSUA	3	Sium suave	Water parsnip	P-FORB P-FORB	Apiaceae Liliaceae
SMIRAC	9	Smilacina racemosa	False spikenard Spikenard	P-FORB	Liliaceae
SMISTE	5 8	Smilacina stellata	Greenbrier	P-FORB	Smilacaceae
SMIECI SMIHER	8	Smilax ecirrata Smilax herbaceavar, lasioneura	Carrion-flower	H-VINE	Smilacaceae
SMIHIS	8	Smilax hispida	Bristly greenbrier	W-VINE	Smilacaceae
SOLCAR	0	Solanum carolinense	Carolina horsenettle	P-FORB	Solanaceae
SOLDUL	*	SOLANUM DULCAMARA	Climbing nightshade	P-FORB	Solanaceae
SOLINT	1	Solanum interius	Plains black nightshade	P-FORB	Solanaceae
SOLPTY	Ö	Solanum ptycanthum	Blacknightshade	A-FORB	Solanaceae
SOLROS	Ō	Solanumrostratum	Buffalo bur	A-FORB	Solanaceae
SOLSAR	*	SOLANUM SARRACHOIDES	Viscid nightshade	A-FORB	Solanaceae
SOLTRI	0	Solanum triflorum	Cutleafnightshade	A-FORB	Solanaceae
SOLCAC	1	Solidago canadensis var. canadensis	Canada goldenrod	P-FORB	Asteraceae
SOLCAG	1	Solidago canadensis var. gilvocanescens	Canada goldenrod	P-FORB	Asteraceae
SOLCAH	1	Solidago canadensisvar. hargeri	Canada goldenrod	P-FORB	Asteraceae
SOLCAL	1	Solidago canadensisvar. salebrosa	Canada goldenrod	P-FORB	Asteraceae
SOLCAB	1	Solidago canadensis var. scabra	Canada goldenrod	P-FORB	Asteraceae
SOLFLE	10	Solidago flexicaulis	Broadleaf goldenrod	P-FORB	Asteraceae
SOLGIG	4	Solidago gigantea	Late goldenrod	P-FORB	Asteraceae
SOLMIS	5	Solidago missouriensis	Prairie goldenrod	P-FORB	Asteraceae
SOLMOL	6	Solidago mollis	Soft goldenrod	P-FORB	Asteraceae
SOLNEM	6	Solidago nemoralis	Gray goldenrod	P-FORB	Asteraceae
SOLPTA	8	Solidago ptarmicoides	Sneezewort aster	P-FORB	Asteraceae Asteraceae
SOLRID	10	Solidago riddellii	Riddell's goldenrod	P-FORB P-FORB	Asteraceae
SOLRIG	10	Solidago rigida Solidago spociosa	Rigid goldenrod		
SOLSPE	10	Solidago speciosa	Showy-wand goldenrod	P-FORB	Asteraceae

Acronym	С	Scientific Name	Common Name	Physiognomy	Family
SONARV	*	SONCHUS ARVENSIS	Field sow thistle	P-FORB	Asteraceae
SONASP	*	SONCHUS ASPER	Prickly sow thistle	A-FORB	Asteraceae
SONOLE	₩.	SONCHUS OLERACEUS	Common sow thistle	A-FORB	Asteraceae
SOPNUT	6	Sophora nuttalliana	White loco	P-FORB	Fabaceae
SORNUT	6	Sorghastrum nutans	Indian grass	P-GRASS	Poaceae
SORHAL	*	SORGHUMHALEPENSE	Johnson-grass	P-GRASS	Poaceae
SPACHL	8	Sparganium chlorocarpum	Greenfruit burreed	P-FORB	Sparganiaceae
SPAEUR	4	Sparganium eurycarpum	Giant burreed	P-FORB	Sparganiaceae
SPAGRA	6	Spartina gracilis	Alkali cordgrass	P-GRASS	Poaceae
SPAPEC	5	Spartina pectinata	Prairie cordgrass	P-GRASS	Poaceae
SPEARV	*	SPERGULA ARVENSIS	Cornspurry	A-FORB	Caryophyllaceae
SPEMAR	*	SPERGULARIA MARINA	Salt-marsh sand spurry	A-FORB	Caryophyllaceae
SPHCOC	4	Sphaeralcea coccinea	Red false mallow	P-FORB	Malvaceae
SPHOBM	7	Sphenopholis obtusata var. major	Slenderwedgegrass	A-GRASS	Poaceae
SPH0B0	7	Sphenopholis obtusata var. obtusata	Prairie wedgegrass	A-GRASS	Poaceae
SPIALB	7	Spiraea alba	Meadow-sweet	SHRUB	Rosaceae
SPICER	8	Spiranthes cernua	Ladies'-tresses	P-FORB	Orchidaceae
SPIMAG	8	Spiranthes magnicamporum	Great Plains ladies'-tresses	P-FORB	Orchidaceae
SPIROM	9	Spiranthes romanzoffiana	Hooded ladies'-tresses	P-FORB	Orchidaceae
SPIVER	8	Spiranthes vernalis	Twisted ladies'-tresses	P-FORB	Orchidaceae
SPIPOL	3	Spirodela polyrhiza	Greater duckweed	P-FORB	Lemnaceae
SPOAIR	5	Sporobolus airoides	Alkali sacaton	P-GRASS	Poaceae
SPOASP	4	Sporobolus aspervar. asper	Rough dropseed	P-GRASS	Poaceae
SPOCRY	6	Sporobolus cryptandrus	Sand dropseed	P-GRASS	Poaceae
	10	Sporobolus heterolepis	Prairie dropseed	P-GRASS	Poaceae
SPONEG	0	Sporobolus neglectus	Poverty grass	A-GRASS	Poaceae
STAPAL	3	Stachys palustris subsp. pilosa	Hedge-nettle	P-FORB	Lamiaceae
STATEN	8	Stachys tenuifolia	Thinleaf betony	P-FORB	Lamiaceae
STAPIN	8	Stanleya pinnatavar. pinnata	Prince's plume	SHRUB	Brassicaceae
STECRA	9	Stellaria crassifolia	Fleshy stitchwort	P-FORB	Caryophyllaceae
STELOF	8	Stellaria longifolia	Longleaf stitchwort	P-FORB	Caryophyllaceae
STELOP	9	Stellaria longipes	Longstalk stitchwort	P-FORB	Caryophyllaceae
STEMED	*	STELLARIA MEDIA	Common chickweed	A-FORB	Caryophyllaceae
STICOM	6	Stipa comata	Needle-and-thread	P-GRASS	Poaceae
STICUR	6	Stipa curtiseta	Needlegrass	P-GRASS	Poaceae
STISPA	8	Stipa spartea	Porcupinegrass	P-GRASS	Poaceae
STIVIR	5	Stipa viridula	Green needlegrass	P-GRASS	Poaceae
STRHEL	7	Strophostyles helvula	Trailing wild bean	A-FORB	Fabaceae
STRLEI	6	Strophostyles leiosperma	Slickseed bean	A-FORB	Fabaceae
SUADEP	2	Suaeda depressa	Sea blite	A-FORB	Chenopodiaceae
DOMAUS	1	Suaeda moquinii	Seepweed	SHRUB	Chenopodiaceae
SUCSUC	1	Suckleya suckleyana	Poison suckleya	A-FORB	Chenopodiaceae
Symalb	8	Symphoricarpos albus	White coralberry	SHRUB	Caprifoliaceae
SYMOCC	3	Symphoricarpos occidentalis	Westernsnowberry	SHRUB	Caprifoliaceae
ralpar –	8	Talinum parviflorum	Prairie flameflower	P-FORB	Portulaceae
TAMRAM	*	TAMARIX RAMOSISSIMA	Saltcedar	SHRUB	Tamaricaceae
TANVUL	*	TANACETUM VULGARE	Common tansy	P-FORB	Asteraceae
<b>FARLAE</b>	*	TARAXACUM LAEVIGATUM	Red-seeded dandelion	P-FORB	Asteraceae
<b>TAROFF</b>	*	TARAXACUM OFFICINALE	Common dandelion	P-FORB	Asteraceae
TEUCAN	3	Teucrium canadense var. boreale	Woodsage	P-FORB	Lamiaceae
THADAS	7	Thalictrum dasycarpum	Purple meadow rue	P-FORB	Ranunculaceae
THADIO	7	Thalictrum dioicum	Quicksilver-weed	P-FORB	Ranunculaceae
THAVEN	6	Thalictrum venulosum	Early meadow rue	P-FORB	Ranunculaceae
HEFIL	2	Thelesperma filifolium var. intermedium	Stiff greenthread	A-FORB	Asteraceae
	10	Thelesperma marginatum	Navajo tea	P-FORB	Asteraceae
THEINT	7	Thelypodium integrifolium	Entireleaved thelypody	B-FORB	Brassicaceae
THEPAL	8	Thelypteris palustris	Marshfern	FERN	Polypodiaceae
THERHO	6	Thermopsis rhombifolia	Prairie buck bean	P-FORB	Fabaceae
THLARV	*	THLASPIARVENSE	Field pennycress	A-FORB	Brassicaceae
FILAME	7	Tilia americana	American linden	TREE	Tiliaceae
<b>TOFGLU</b>	10	Tofieldia glutinosa	Sticky false asphodel	P-FORB	Liliaceae
			Ctambasa tau maand dainy	P-FORB	Asteraceae
TOWEXS	8	Townsendia exscapa	Stemless townsend daisy Largeflower townsend daisy	B-FORB	Asteraceae

TOWHOO					
	8	Townsendia hookeri	Hooker's townsend daisy	P-FORB	Asteraceae
TOXRYD	3	Toxicodendron rydbergii	Poison ivy	SHRUB	Anacardiaceae
Trabra	7	Tradescantia bracteata	Spiderwort	P-FORB	Commelinaceae
TRAOCC	5	Tradescantia occidentalis	Prairie spiderwort	P-FORB	Commelinaceae
TRADUB	*	TRAGOPOGON DUBIUS	Goat's beard	B-FORB	Asteraceae
TRAPRA	*	TRAGOPOGON PRATENSIS	Meadow salsify	B-FORB	Asteraceae
	10	Triadenum fraseri	Marsh St. John's-wort	P-FORB	Clusiaceae
TRITER	*	TRIBULUS TERRESTRIS	Puncture vine	A-FORB	Zygophyllaceae
	10	Trichostema brachiatum	False pennyroyal	A-FORB	Lamiaceae
TRIARV	*	TRIFOLIUM ARVENSE	Rabbit-foot clover	A-FORB	Fabaceae
TRIBEC	9	Trifolium beckwithii	Beckwith's clover	P-FORB	Fabaceae
TRICAM	*	TRIFOLIUM CAMPESTRE	Lowhopclover	A-FORB	Fabaceae
rridub	*	TRIFOLIUM DUBIUM	Small hopolover	A-FORB	Fabaceae
rrihyb	*	TRIFOLIUM HYBRIDUM	Alsike clover	P-FORB	Fabaceae
TRIINC	*	TRIFOLIUM INCARNATUM	Crimson clover	A-FORB	Fabaceae
TRIPRA	*	TRIFOLIUM PRATENSE	Red clover	P-FORB	Fabaceae
RIREP	*	TRIFOLIUM REPENS	White clover	P-FORB	Fabaceae
	*		Persian clover	A-FORB	Fabaceae
TRIRES		TRIFOLIUM RESUPINATUM	Seaside arrowgrass	P-FORB	Juncaginaceae
RICON	8	Triglochin concinnavar. debilis		P-FORB	Juncaginaceae
RIMAR	5	Triglochin maritima var. elata	Seaside arrowgrass		
RIPAL	8	Triglochin palustris	Marsh arrowgrass	P-FORB	Juncaginaceae Liliaceae
	10	Trillium cernuum	Nodding trillium	P-FORB	
	10	Trillium nivale	Dwarf white trillium	P-FORB	Liliaceae
RILEP	8	Triodanis leptocarpa	Slimpod Venus' looking-glass	A-FORB	Campanulaceae
RIPER	6	Triodanis perfoliata	Clasping Venus' looking-glass	A-FORB	Campanulaceae
RIPUR	9	Triplasis purpurea	Sandgrass	A-GRASS	Poaceae
RIMIC	7	Tripterocalyx micranthus	Sand puffs	A-FORB	Nyctaginaceae
YPANG	*	TYPHA ANGUSTIFOLIA	Narrowleaf cattail	P-FORB	Typhaceae
YPLAT	2	Typha latifolia	Broadleaf cattail	P-FORB	Typhaceae
TYPGLA	*	TYPHAXGLAUCA	Hybrid cattail	P-FORB	Typhaceae
JLMAME	3	Ulmus americana	American elm	TREE	Ulmaceae
JLMPUM	*	ULMUS PUMILA	Siberian elm	TREE	Ulmaceae
JLMRUB	5	Ulmus rubra	Slippery elm	TREE	Ulmaceae
	10	Ulmus thomasii	Rock elm	TREE	Ulmaceae
JRTDIO	0	Urtica dioica	Stinging nettle	P-FORB	Urticaceae
	10	Utricularia intermedia	Flatleaf bladderwort	P-FORB	Lentibulariaceae
	10	Utricularia minor	Lesser bladderwort	P-FORB	Lentibulariaceae
JTRVUL	2	Utricularia vulgaris	Common bladderwort	P-FORB	Lentibulariaceae
	10	Uvularia grandiflora	Large bellwort	P-FORB	Liliaceae
	10	Uvularia sessilifolia	Small bellwort	P-FORB	Liliaceae
/ACPYR	*	VACCARIA PYRAMIDATA	Cow-cockle	A-FORB	Caryophyllaceae
	10	Vallisneria americana	Tapegrass	P-FORB	Hydrocharitaceae
/ERTHA	*	VERBASCUMTHAPSUS	Common mullein	B-FORB	Scrophulariaceae
/ERBIP	2	Verbena bipinnatifida	Dakota vervain	P-FORB	Verbenaceae
/ERBRA	0	Verbena bracteata	Prostrate vervain	A-FORB	Verbenaceae
	5	Verbena hastata	Blue vervain	P-FORB	Verbenaceae
/ERHAS	2	Verbena stricta	Hoary vervain	P-FORB	Verbenaceae
/ERSTR	3	Verbena stricta Verbena urticifolia	Nettleleaf vervain	P-FORB	Verbenaceae
/ERURT	ن *		Golden crownbeard	A-FORB	Asteraceae
/ERENC		VERBESINA ENCELIOIDES SUBSP. EXAURICULATA	Golden Crownbeard		
/ERFAS	3	Vernonia fasciculatavar. corymbosa	Ironweed	P-FORB	Asteraceae
/ERAME	5	Veronica americana	Brooklime speedwell	P-FORB	Scrophulariaceae
/erana	*	VERONICA ANAGALLIS-AQUATICA	Waterspeedwell	P-FORB	Scrophulariaceae
/ERARV	*	VERONICA ARVENSIS	Corn speedwell	A-FORB	Scrophulariaceae
/ERCAT	2	Veronica catenata	Waterspeedwell	P-FORB	Scrophulariaceae
/ERHED	*	VERONICA HEDERAEFOLIA	lvyleafspeedwell	A-FORB	Scrophulariaceae
/ERLON	*	VERONICA LONGIFOLIA	Garden speedwell	P-FORB	Scrophulariaceae
/EROFF	*	VERONICA OFFICINALIS	Common gypsyweed	P-FORB	Scrophulariaceae
/ERPER	0	Veronica peregrina	Purslane speedwell	A-FORB	Scrophulariaceae
	10	Veronica peregrina Veronica scutellata	Marsh speedwell	P-FORB	Scrophulariaceae
	10	Veronica scutenata Veronicastrum virginicum	Culver's root	P-FORB	Scrophulariaceae
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vervir Viblen	8	Viburnum lentago	Nannyberry	TREE	Caprifoliaceae

cronym	С	Scientific Name	Common Name	Physiognomy	Family
IBRAF	10	Viburnum rafinesquianum	Downy arrowwood	SHRUB	Caprifoliaceae
(ICAMA	6	Vicia americana var. americana	American vetch	H-VINE	Fabaceae
<b>ICAMM</b>	3	Vicia americana var. minor	American vetch	P-FORB	Fabaceae
ICSAT	*	VICIA SATIVA	Common vetch	A-FORB	Fabaceae
(ICVIL	<del>-X</del> -	VICIA VILLOSA	Hairy vetch	A-FORB	Fabaceae
'IOADU	8	Viola adunca	Hook-spurred violet	P-FORB	Violaceae
IOCAN	4	Viola canadensis var. rugulosa	Tall white violet	P-FORB	Violaceae
IONEP	8	Viola nephrophylla	Northern bog violet	P-FORB	Violaceae
IONUT	8	Viola nuttallii	Yellow prairie violet	P-FORB	Violaceae
10PED	8	Viola pedatifida	Prairie violet	P-FORB	Violaceae
10PRA	2	Viola pratincola	Blue prairie violet	P-FORB	Violaceae
'IOPUB	9	Viola pubescens	Downy yellow violet	P-FORB	Violaceae
10SOR	2	Viola sororia	Downy blue violet	P-FORB	Violaceae
'ITRIP	3	Vitis riparia	River-bank grape	W-VINE	Vitaceae
'ITVUL	3	Vitis vulpina	Winter grape	W-VINE	Vitaceae
VOLBOR	5	Wolffia borealis	Northern watermeal	P-FORB	Lemnaceae
VOLCOL	5	Wolffia columbiana	Columbian watermeal	P-FORB	Lemnaceae
V000RE	8	Woodsia oregana	Oregon woodsia	FERN	Polypodiaceae
GRMAC	3	X Agrohordeum macounii	Macoun's barley	P-GRASS	Poaceae
ANSTR	0	Xanthium strumarium	Cocklebur	A-FORB	Asteraceae
YLGLA	4	Xylorhiza glabriuscula	Smooth woodyaster	P-FORB	Asteraceae
UCGLA	6	Yucca glauca	Yucca	SHRUB	Agavaceae
ANPAL	2	Zannichellia palustris	Horned pondweed	P-FORB	Zannichelliaceae
ANAME	3	Zanthoxylum americanum	Prickly ash	SHRUB	Rutaceae
IGELE	8	Zigadenus elegans	White camass	P-FORB	Liliaceae
IGVEN	7	Zigadenus venenosus	Death camass	P-FORB	Liliaceae
ZAQU	5	Zizania aquatica	Wild rice	A-GRASS	Poaceae
IZAPT	8	Zizia aptera	Meadow parsnip	P-FORB	Apiaceae
IZAUR	8	Zizia aurea	Golden alexanders	P-FOB	Apiaceae
OSDUB	8	Zosterella dubia	Water stargrass	P-FORB	Pontederiaceae

	REPORT DOCUMENTAT	TION PAGE	Form approved OMB No. 0704-0188		
gathering and maintaining the data nee	eded, and completing and reviewing the including suggestions for reducing this	or per response, including time for reviewing instru- e collection of information. Send comments regardin burden, to Washington Headquarters Services, Dire 12, and to the Office of Management and Budget, Pa	g this burden estimate or any other ctorate for Information Operations and		
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13. ABSTRACT (Maximum 200 wo	ords)				
Floristic quality assessm provide long-term monifacilitate the use of flori adjacent grasslands, we to each plant species in patterns of occurrence of dependent. Because state equally valid in nearby a (17%) were determined and the entire native floristes in order of their flowed and FQI, an effective mediand FQI, an effective mediand sites in order of their flowed and FQI, an effective mediand for the sites in order of their flowed and formediane for the sites in order of their flowed and formed for the sites in order of their flowed formed for the sites in order of the sites in order o	nent can be used to identify natoring of natural area quality, stic quality assessment in Nordeveloped a species list and the region's flora. The C value of each plant species in the Date boundaries usually do not for a case with the same vegetation to be nonnative to the region. The date areas with the same vegetation to be nonnative to the region. The had a mean C value (C) of the case of evaluating the quality the same of evaluating the quality.	atural areas, to facilitate comparisons are and to evaluate habitat management and the evaluate habitat management and the Dakota, South Dakota (excluding the Institute of Conservatism (Conservatism) and our confidence that a particular sollow ecological boundaries, the Covaluative of the 1,584 taxa we recognized. We assigned Covalues of 4 or higher to 6.1. A floristic quality index (FQI) can be coefficients of conservatism supplied to for plant communities can be obtained. If over time, temporal changes in floristical conservations are conservations.	d restoration efforts. To e Black Hills), and values; range = 0 to 10) ve knowledge of the ar taxon is natural-area es we assigned should be d in this effort, 275 77% of our native taxa, be calculated to rank here and calculating C Additionally, by		
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The Biological Resources Division publishes scientific and technical articles and reports resulting from the research performed by our scientists and partners. These articles appear in professional journals around the world. Reports are published in two report series: Biological Science Reports and Information and Technology Reports.

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**Chief**Gaye S. Farris

Production Staff

Editors Tammy M. Charron (Johnson Controls World Services) Rhonda F. Davis Beth A. Vairin

Layout Natalie G. Trahan (Johnson Controls World Services)

Printing Liaison Susan M. Lauritzen

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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This responsibility includes fostering the sound use of our lands and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities.

